Technical Manual

Coca-Cola Lean Marketing Vender

P Series LMV

Model DN504P - *Italy*

Beginning Production Run 7675AE

Manufactured by

CRANE

Dixie Narco
Vending Systems

Part #803,904,530.01

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APPLICATION

This information applies to 504P-Series vender manufactured the first quarter 2006 which have significant differences in programming and parts content from previous venders. To order parts or information pertaining to this vender, please contact Dixie Narco.

VENDER SAFETY PRECAUTIONS

Please read this manual in its entirety. This service information is intended for use by a qualified service technician, who is familiar with proper and safe procedures to be followed when repairing, replacing, or adjusting any Dixie-Narco vender components. All repairs should be performed by a qualified service technician who is equipped with the proper tools and replacement components, using Genuine Dixie-Narco Factory Parts.

Warning

REPAIRS AND/OR SERVICING ATTEMPTED BY UNINFORMED PERSONS CAN RESULT IN HAZARDS DEVELOPING DUE TO IMPROPER ASSEMBLY OR ADJUSTMENTS WHILE PERFORMING SUCH REPAIRS. PERSONS NOT HAVING A PROPER BACKGROUND MAY SUBJECT THEMSELVES TO THE RISK OF INJURY OR ELECTRICAL SHOCK WHICH CAN BE SERIOUS OR EVEN FATAL.

PRODUCT IDENTIFICATION

First production of 504 P-Series was March 2006. The production date of Dixie-Narco products is determined by the date code incorporated in the serial number.

The vender serial number takes the form yyyyzz-xxxx.The last 4 digits (xxxx) identify the specific vender. The first 4 digits (yyyy) identify the manufacturing run that the vender was built in. The two alpha characters (zz) identify the quarter and the year the vender was built. The first alpha-character identifies the quarter.

    A = 1st quarter
    B = 2nd quarter
    C = 3rd quarter
    D = 4th quarter

The second alpha-character identifies the year:

    G = 2008
    H = 2009
    I = 2010
    J = 2011

PHYSICAL CHARACTERISTICS

	504P
HEIGHT	72"
WIDTH	28"
DEPTH	33.5"
DEPTH WITH VALIDATOR	N/A
SHIPPING WEIGHT	678 lbs.
Loaded Weight 4 Deep Cans	1153 lbs

Model	Number of Selections	Number of Narrow Columns
504P	8	7

RECEIVING INSPECTION

Upon receipt, inspect the vender for any shipping damage. If there is any damage have the driver note the damage on the bill of lading and notify Dixie-Narco.

Although the terms of sale are FOB shipping point, which requires the consignee to originate shipping damage claims, Dixie-Narco will gladly help if you must file a claim.

The Dixie-Narco P Series vender is designed utilizing the latest technology.

UNPACKING THE VENDERS

Remove the stretch wrap and top cover from the vender. Product cards are installed in the select buttons.

DO NOT STORE THE VENDER OUTSIDE WITH THE STRETCH WRAP ON. THIS COULD CAUSE THE STRETCH WRAP TO BOND TO THE VENDER'S SURFACE, WHICH COULD DAMAGE THE FINISH.

Remove the shipping boards from the bottom of the vender. The shipping boards are attached by the leveling legs. To avoid unnecessary damage to the leveling legs or base, remove the shipping boards by using a 1½" "socket type" wrench to unscrew the leveling legs. Be sure to replace the legs after removing the shipping boards.

WARNING
TO AVOID THE POSSIBILITY OF A FIRE HAZARD, DO NOT STORE ANYTHING OR ALLOW DEBRIS OF ANY KIND TO ACCUMULATE IN THE BOTTOM OF THE DOOR, IN AND AROUND THE REFRIGERATION COMPARTMENT OF THE CABINET, OR IN FRONT OF THE EVAPORATOR AND CONDENSER COILS.

Warning
WARNING: ENSURE THAT POWER IS DISCONNECTED FROM THE VENDER OR THAT THE POWER INTERRUPT SWITCH IS NOT DEFEATED BEFORE INSPECTING OR REPLACING THE LAMPS, OTHER ELECTRICAL COMPONENTS, OR WORKING WITH OR ADJUSTING THE VENDING MECHANISM. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY SUBJECT THE USER TO THE RISK OF ELECTRICAL SHOCK OR MECHANICAL INJURY, WHICH CAN BE SERIOUS OR FATAL.

ELECTRIC POWER NEEDED

Refer to the cabinet serial number plate to determine the proper voltage and frequency the machine requires (domestically this requirement is 120 Volts, 60 Hertz). The cabinet serial plate also indicates the Amperage of the vender. The vender must be plugged into a properly rated, single phase alternating current outlet with its own circuit protection (fuse / circuit breaker).
DO NOT USE AN EXTENSION CORD.

GROUND THE VENDER

The vender is equipped with a three-wire power supply cord and MUST be plugged into a properly grounded outlet.

DO NOT REMOVE THE GROUND PIN OR IN ANY WAY BYPASS, MODIFY, DEFEAT, OR DESTROY THE GROUNDING SYSTEM OF THE VENDER.

If the outlet will not accept the power cord plug, contact an electrician to install a proper AC outlet.

Warning
FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY SUBJECT THE USER TO THE RISK OF INJURY OR ELECTRICAL SHOCK WHICH CAN BE SERIOUS OR FATAL. PERIODICALLY INSPECT THE POWER SUPPLY CORD FOR DAMAGE. IF THE CORD BECOMES DAMAGED IT MUST BE REPLACED WITH THE SAME SIZE AND TYPE CORD. CONTACT DIXIE-NARCO FOR ASSISTANCE.

PLACING THE VENDER ON LOCATION
!! CAUTION !!

DO NOT TRANSPORT THE VENDER TO OR FROM THE LOCATION LOADED WITH PRODUCT.
DAMAGE TO THE VENDER MAY RESULT.

This Vender is suitable for indoor/outdoor use. The vender must be located on a solid, flat, and level surface. Ensure the flooring can bear the weight of a fully loaded vender (approx. 1200 lbs). The vender must be positioned close enough to an electrical outlet that an extension cord is not required. If the machine will be subject to user misuse or vandalism, it is recommended that the vender be secured to the floor or wall as described

in Dixie-Narco Technical Bulletin 344. Call the Dixie-Narco Technical Service Department or your Dixie-Narco Representative for assistance.

LEVEL THE VENDER

When the vender is level, the door can be opened to any position and it will not move by itself. Open the door to several different positions before deciding the vender is level. A carpenter's level will help verify the machine is level.

Make sure that all leveling legs are in contact with the floor. If you cannot level the vender in its current location, select another location. DO NOT place any objects under the machine.

This Machine is not suitable for installation in an area where a water jet may be used.

DANGER

THE VENDER MUST BE PROPERLY LOCATED AND LEVELED. IF THE MACHINE WILL BE SUBJECT TO USER MISUSE OR VANDALISM IT IS RECOMMENDED THAT THE VENDER BE SECURED TO THE FLOOR OR WALL AS DESCRIBED IN DIXIE-NARCO TECHNICAL BULLETIN 344 TO MINIMIZE THE RISK OF INJURY OR DEATH FROM TIPPING. CALL THE DIXIE-NARCO TECHNICAL SERVICE DEPARTMENT OR YOUR DIXIE-NARCO REPRESENTATIVE FOR ASSISTANCE.

SPACE THE VENDER

Do not block the rear of the vender. Keep the vender 4 inches (10 cm) from the wall to ensure adequate airflow to the condenser and compressor. At the front of the vender, make sure that nothing obstructs the air intake at the bottom of the main door. At the rear of the vender, make sure nothing obstructs the air exhaust at the bottom of the cabinet.

WARNING

TO AVOID THE POSSIBILITY OF A FIRE HAZARD, DO NOT STORE ANYTHING OR ALLOW DEBRIS OF ANY KIND TO ACCUMULATE IN THE BOTTOM OF THE DOOR, IN AND AROUND THE REFRIGERATION COMPARTMENT, THE CABINET, OR IN FRONT OF THE EVAPORATOR AND CONDENSER COILS.

COIN CHANGERS & OTHER ACCESSORIES

The vender must have an MDB coin changer installed and can have an MDB bill acceptor installed. If the MDB coin changer and other MDB accessories are not factory installed, refer to the instructions received from the manufacturer of the MDB coin changer and other MDB accessories for proper set-up and installation.

The vender will support the following MDB coin changers:

> Multi-Drop Coin Mech (Domestic)
> Coinco 9302GX
> Coinco USQ G700 Series
> Conlux USLZ-101
> Conlux CCM5G
> Mars 4510
> Mars 6512

The vender will support the following MDB bill validators:

> Multi-Drop Bill Validators (Domestic)
> Coinco BA30B, BA50, MAG30, MAG50
> Mars VN2512, VN2502, VN2312
> Conlux NBU-2111-12, NBM 3000 Series
> Ardac 5500 Series

The vender will support the following MDB card readers:

> At publication, card reader dispositions were not available. Contact card reader manufacturer for proper installation and setup.

LOADING CHANGE TUBES

Open the main door and enter the **"TUFL"** TUBE FILL ROUTINE mode in Programming (see Section B – Programming).

Load the coin mechanism with coins by inserting coins in the coin mech's separator. The display will show the total number of the coin type as they are inserted.

Note: A low coin level in the coin tubes will interfere with operation of the bill validator.

For additional information about coin mechanisms, refer to the specific manufacturer's instructions.

Loading Product

The P Series Vender is designed to vend a wide range of packages internationally.

All P Series Venders are shipped ready to vend packages according to customers orders. To vend

an alternative package in the P Series vender, contact Dixie Narco Technical Service Dept. or your Representative for assistance. You can also search the package type you which to vend at www.dixienarco.com.

INITIAL LOADING

To ensure proper vending, make sure columns are set to vend the proper packages. When loading the narrow columns, lay the first row of packages on the Load Bar.

Correct loading will prevent service calls and ensure proper vending.

After loading the vender for the first time, ensure the vender is loaded and primed. Priming is done in programming. **The depth must also be programmed depending on the package to be vended. 12oz Cans may be programmed up to 4 deep.**

NOTE: To ensure proper airflow through the evaporator and the proper operation of the Vend Sensor, *DO NOT* place packages (or other foreign objects) in the bottom of the tank.

COCA-COLA EVS REVISION 3.0 P SERIES PROGRAMMING METHOD
August 2003

The controller has two modes of operation: SALES and SERVICE.

```
┌─────────────────────────────────────┐
│   ┌───┐   ┌───┐   ┌───┐   ┌───┐      │
│   │ 1 │   │ 2 │   │ 3 │   │ 4 │      │
│   └───┘   └───┘   └───┘   └───┘      │
│   ┌───┐   ┌───┐   ┌───┐   ┌───┐      │
│   │ 5 │   │ 6 │   │ 7 │   │ 8 │      │
│   └───┘   └───┘   └───┘   └───┘      │
└─────────────────────────────────────┘
```
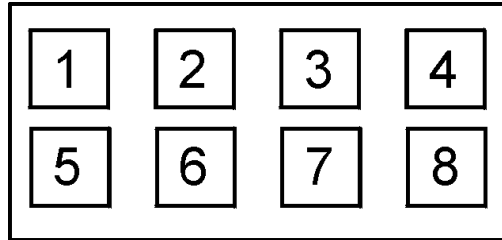
SALES MODE:
In sales mode, on power up display will show software installed in vender, then change to POS message or decimal point. Note: If **"COLS"** appear s on the display on power up with the door open, you will need to program the vender model number in the controller. To program with **"COLS"** on the display press select button 4. The display will show **"6"** for six columns. Press select button 2 to scroll through available number of columns in the machine. When the displayed number of columns matches the number of columns in the machine, press select button 4 to set the number of columns. **"MODL"** will appear on the display, press select button 4. The display will show the first available model number for the current vender type. Press select button 2 to scroll through the available vender model numbers for this vender. When the vender type you wish to save is showing on the display, press select button 4. The display will scroll **"4 = SET PACKAGE TYPE 1 = EXIT"** . Press select button 4 and the display will show **"ALL1"** with the 1 flashing. This will allow you to set the package type of the machine if it is different that the default of package type 2. Press select button 2 to scroll through the available package types. Press select button 4 to set the displayed package type, and the display will show **"SAVE"**. Press button 4 to save the package type. **"PRM1"** will appear on the display. Press button 4 to prime column 1 or select button 1 to skip priming column 1. The display will then display **"PRM2"** . Repeat the priming process until all columns have been primed or skipped. The controller will return to normal door open operating mode. The far right decimal also being lit indicates column(s) is (are) - jammed or select switch(es) are stuck. When money is inserted, the display indicates the total amount of the deposit. The select buttons are used to select the product. In sales mode you may access an external menu for reading historical sales counters, cash counters, error codes, or return to sales mode.

SERVICE MODE:
If configuration switch 4 is set to **"C4 0"**, when the door is opened, **"NONE"** or a list of Error codes will show on the display. If configuration switch 4 is set to "C4 1", when the door is opened, **"CASH ####-##.##"**, **"SALE ####-####"**, **"CARD ####-####"**, **"EROR"**, or **"NONE"** will show on the display. The service mode is entered when the door is open and the service switch on the controller is pressed. The operator can now use the first four select switches to move through the main routine menu.

> Select Button 1:   Abort/Cancel - will return to previous menu prompt.
> Select Button 2:   Scroll Up - forward in menu.
> Select Button 3:   Scroll Down - backward in menu.
> Select Button 4:   Enter/Save/Clear - Allows you to enter a specific routine, save what you have programmed, or
>   clear the error prompts.

Note: Routines with * are password protected. They can only be viewed and entered after the password is entered at the "PASS" prompt.

EXTERNAL MENU MODE:
The information available in this mode is obtainable with the door closed or open as long as the vender is in sales mode, by entering the password which is set at 4,2,3,1. Information available is historical cash counted, resettable cash counted for each selection, historical sale (total number of vends), resettable vends counted for each selection, error codes, and return. Refer to the **"CASH", "SALE"**, AND **"EROR"** routines for instructions to move through the menus.

PROGRAMMING MENU

"EROR"   -   ERROR ROUTINE

This function allows you to enter the error readout routine. **"EROR"** will appear when you press the service button on the control board. Press select button 4, if there have been no errors since the last reset, the display will read "NONE". If one or more errors have occurred, the display will show the first error code that occurred.

The following are error codes that may be displayed and detailed information accessed: **NONE, VEND, CTRL, SEL, STS, CHAR, BUAL, CRDR, S-D,** and **RFRG**.

Press select button 2 or 3 to scroll through any error codes that are present.
Important: If there is only one problem, that will be the only error code shown when you enter the error code
                    sub-menus.

With an error code showing on the display, press select button 4 to access detailed information.
With an error code showing on the display, press and hold select button 4 for 2 seconds, will clear the error.

Press select button 1 to return to **"EROR"**.

"VEND"   -   Vend Mechanism Summary Errors
          Press select button 4 and the display will show one of the following:
                 -    **"CJ#"**, where # is the column number detected jammed.
                 -    **"CS"**, chute sensor failure.
                 -    **"HS"**, home sense error.
          Press select button 1 will return to **"VEND"** if all vend mech errors have not been cleared.
          If all vend mech errors have been cleared the next error mode will be displayed, or **"NONE"** if there
          are no errors.
          Press select button 1 will return to **"EROR"**.

"CTRL"   -   Control System Summary Errors
          Press select button 4 and the display will show one of the following:
                 -    **"DS"**, indicating a door switch in the open position for more than 1 hour.
                 -    **"RAM"**, indicating the check sum for service mode settings memory has been corrupted.
                 -    **"ACLO"**, indicating AC supply to the machine has fallen more than 15% below normal line
                       voltage for more than 30 seconds.
                 -    **"SF"**, indicating a peripheral has introduced a scaling factor that is incompatible with current
                       setting.
          Press select button 1 will return to **"CTRL"** if all control system errors have not been cleared.
          If all control system errors have been cleared the next error code will be displayed, or **"NONE"** if
          there are no errors.
          Press select button 1 will return to **"EROR"**.

"SEL"   -   Select Switch Summary Errors
          Press select button 4 and the display will show **"SL##"**, indicating a select switch has been active for
          more than 15 seconds while in normal (sales) mode.
          Press select button 1 will return to **"SEL"** if all select switch errors have not been cleared.
          If all select switch errors have been cleared the next error code will be displayed or **"NONE"** if there
          are no errors.
          Press select button 1 will return to **"EROR"**.

"STS"   -   Space To Sales Summary Errors
          Press select button 4 and the display will show **"UA##"**, indicating a column not assigned to a select
          button.
          Press select button 1 will return to **"STS"** if all space-to-sales errors have not been cleared.
          If all space-to-sales errors have been cleared the next error code will be displayed, or **"NONE"** if
          there are no errors.
          Press select button 1 will return to **"EROR"**.

"CHAR" - Changer Summary Errors
Press select button 4 and the display will show one of the following:
- **"CC"**, indicating a changer communication error. (No communication for more than 2 seconds)
- **"TS"**, indicating a tube sensor error.
- **"IC"**, indicating an inlet chute blocked error (no coins sensed in acceptor for 96 hours).
- **"TJ##"**, indicating a tube jam error.
- **"CRCH"**, indicating a changer ROM check sum error (failed changer).
- **"EE"**, indicating excessive escrow attempts (more than 255 since last coin sensed).
- **"NJ"**, indicating a coin jam reported by coin mech.
- **"LA"**, indicating a low coin acceptance rate (less than 80%).
- **"DIS"**, indicating an acceptor is unplugged.
- **"ROUT"**, indicating a coin was mis-routed.

Press select button 1 will return to **"CHAR"** if all changer errors have not been cleared.
If all changer errors have been cleared the next error code will be displayed or **"NONE"** if there are no errors.
Press select button 1 will return to **"EROR"**.

"BUAL" - Bill Validator Summary Errors
Press select button 4 and the display will show one of the following:
- **"BC"**, indicating a bill validator communication error. (No communication for more than 5 seconds)
- **"BFUL"**, indicating the bill stacker is full.
- **"BILL"**, indicating a defective motor in the validator.
- **"BJ"**, indicating a bill jam in the validator.
- **"BRCH"**, indicating a check sum error.
- **"BOPN"**, indicating an open stacker.
- **"BS"**, indicating a bill validator sensor error.

Press select button 1 will return to **"BUAL"** if all changer errors have not been cleared.
If all validator errors have been cleared the next error code will be displayed or **"NONE"** if there are no errors.
Press select button 1 will return to **"EROR"**.

"CRDR" - Card Reader Summary Errors
Press select button 4 and the display will show one of the following:
- **"CRC"**, indicating no card reader communication for 5 seconds.
- **"CRXY"**, indicating the most recent "non-transient error" from the card reader (failed card reader).

Press select button 1 will return to **"CRDR"** if all changer errors have not been cleared.
If all card reader errors have been cleared the next error code will be displayed or **"NONE"** if there are no errors.
Press select button 1 will return to **"EROR"**.
Press select button 2 will scroll to the next routine.

"S-D" – Display Device Summary Errors
Press select button 4 and the display will show one of the following:
- **"SDC"**, indicating no display device communication for 5 seconds.
- **"SDXX"**, error code number **"XX"**.

Press select button 1 will return to **"S-D"** if all display device errors have not been cleared.
If all display device errors have been cleared the next error code will be displayed or **"NONE"** if there are no errors.
Press select button 1 will return to **"EROR"**.
Press select button 2 will scroll to the next routine.

"RFRG" - Refrigeration Summary Errors
Press select button 4 and the display shows one of the following:
- **"SENS"**, indicating the temperature sensor is defective or unplugged.
- **"COLD"**, indicating the cabinet temperature is 3^0 F below lower limit.
- **"HOT"**, indicating the cabinet temperature is 3^0 F above upper limit.
- **"CNPR"**, indicating the cooling system has failed to decrease temperature 1^0 F per hour while the compressor is running.

"CPO"   -   COIN PAYOUT ROUTINE
This function allows you to dump coins from the coin mechanism.
Press select button 4 to enter mode and the lowest coin value dispensable will show on the display. If a coin mech is not in the vender **"NOCM"** will be displayed.
Press select button 2 or 3 to scroll through the different coin values available.
Press and hold select button 4 to dump the coins whose value is shown on the display.
Press select button 1 will return to **"CPO"**.
Press select button 2 to scroll to the next routine.

"TUFL"   -   TUBE FILL ROUTINE
This function allows you to count the coins loaded in the top (separator) of the coin mech that will be routed to an inventory tube. Press select button 4 to enter mode and the total number of the coin type being entered will be displayed and counted in the vender controller as they are installed. If a coin mech is not in the vender **"NOCM"** will be displayed. The controller will inhibit the acceptance of any coin, which does not go to a tube during this procedure. If a tube full status is detected, that coin type will be inhibited. When you finish loading all coins:
- Press select button 1 to return to **"TUFL"**.
- Press select button 2 to scroll to the next routine.

"TEST" -   TEST ROUTINE
This function allows you to diagnose different functions of the vender.
Press select button 4 and the display will show **"VEND"**.
Press select button 2 or 3 to scroll through the test routines available.
Press select button 1 to return to **"TEST"**.

> **"VEND"**   -   Vend Testing
> This function allows you to test vend each column.
> Press select button 4 and the display will show **"CO-1"**.
> Press select buttons 2 or 3 to scroll through the columns available to run in motor test.
> Press select button 4 to run the motor of the column displayed. The Display will show **"VEND"** and the Motor will run until a product is dispensed or the motor cycles through the package set cycles and determines column is sold out.
> Press select button 1 will return to **"VEND"**.
> Press select button 2 to scroll to next test mode.

> **"JOG"**   -   Jog Test or Prime
> This function allows you to test jog or prime each column.
> Press select button 4 and the display will show **"CO-1"**.
> Press select buttons 2 or 3 to scroll through the columns available to run in jog test.
> Press select button 4 to select the column displayed and **"FOR"** is displayed.
> Press select buttons 2 or 3 to scroll through **"FOR"**(forward), **"REV"**(reverse), and **"PRIM"**(prime) motor direction.
> Press select button 4 to jog/prime the selected motor in the displayed direction.
> Press select button 1 will return to **"CO-X"** where **X** is the column that was previously tested.
> Press select button 1 again will return to **"JOG"**.
> Press select button 2 to scroll to next test mode.

"SL"   -   Select Switch Test

This function allows you to test each select switch.

Press select button 4 and the display will show **"4"**. Then press any select button and the display will show the last select button pressed.

Press and hold select button 1 for approximately 5 seconds will return to **"SL"**.

Press select button 2 to scroll to the next test mode.

"SO"   -   Sold Out Test

This function allows you to view if a column is sold-out or not sold-out.

Press select button 4 and the display will show **"C##"**, where **C#** represents the column number being checked and second **# 0** = not sold-out, **1** = sold-out.

On machines with DC motors, the current sold out state will be displayed.

Press select button 1 to return to **"SO"**.

Press select button 2 to scroll to the next test mode.

"DSP"   -Display Test

This function allows you to test all segments in the display.

Press select button 4 and the display segments will illuminate in the following manner; all vertical elements followed by all horizontal elements, then all diagonal elements. All sold-out indicators (if used) are lit with the horizontal elements and "Use Correct Change Only" indicators are lit with the vertical elements.

Press select button 1 to return to **"DSP"**.

Press select button 2 to scroll to **"RELY"**.

"RELY"   -   RELAY TEST

This function allows you to test the relay electronic control of the compressor (**CNP#**), the evaporator fan(s) (**FAN#**), and the sign front light (**LIT#**).

*CAUTION: **Disconnect power to the compressor before testing the compressor relay. Failure to disconnect power to the compressor before testing the relay could result in damaging the compressor***.

Press select button 4 and the display will show **"CNP#"**, where # is the state of the relay –

0 = not activated or off; 1 = activated or on.   Press select button 4 to toggle the relay on and off.

Press select button 2 to scroll to **"FAN#"**, where **#** is the state of the relay – 0 = activated or on, 1 = deactivated or off. Press select button 4 to toggle the fan(s) on and off.

Press select button 2 to scroll to **"LIT#"**, where **#** is the state of the relay – 0 = activated or on, 1 = deactivated or off. Press select button 4 to toggle the lights on and off.

Press select button 1 to return to **"RELY"**.

Press select button 1 again to return to **"TEST"**.

Press select button 2 to scroll to **"PASS"**.

* "PASS" -   PASSWORD ROUTINE

This function allows you to enter the following routines, which are not accessible until the operator enters a password, which is set as 4-2-3-1. To enter the password, press select button 4 until the display goes blank. Then press select button 2, then 3, then 1, and then 4, and **"CASH"** should appear on the display. If not entered properly, the display will return to **"PASS"**. If entered correctly, the display will go to the next function **"CASH"**.

* "CASH" -   CASH COUNTER ROUTINE

This function will show the user the vender historical total cash counted and the resettable cash counted for each selection for the vender.

Press select button 4 and **"CASH"/"####"/"##.##"** will show on the display where the 8**"#"** characters are the historical total cash counters that have been recorded. Note: Leading zeros are not displayed. *Example*: Display flashes **"CASH"**, then **"26"**, then **"2500"**. This is $2625.00 historical total cash.

Press select button 2 or 3 to display **"CA#"/"####"/"##.##"** where the character **"CA#"** is a selection number and the 8**"#"** characters are the resettable cash counters for that selection. Note: Leading zeros are not displayed. Pressing select button 2 or 3 at this time will scroll through the available selection cash counters. Example: Display flashes **"CA1"**, then **"5"**, then **"20.50"**. This is $520.50 resettable cash for selection #1.

Press select button 1 to return to **"CASH"/"####"/"##.##"**. Press select button 1 again to return to **"CASH"**.

Press select button 2 to scroll to the next routine.

* "SALE" -   SALES COUNTER ROUTINE

This function will show the user the vender historical total number of vends and the resettable vends counted for each selection for the vender.

Press select button 4 and **"SALE"/"####"/"####"** will show on the display where the 8**"#"** characters are the historical total vend counters that have been recorded. Note: Leading zeros are not displayed. *Example*: Display flashes **"SALE"**, then **"1325"**. This is 1325 historical vends.

Press select button 2 or 3 to display **"SL#"/"####"/"####"**, where the **"SL#"** character is a selection number and the 8**"#"** characters are the resettable vend counters for that selection. Note: Leading zeros are not displayed. Pressing select button 2 or 3 at this time will scroll through the available selection vend counters. Example: Display flashes **"SL 1"** then **"145"**. This is 145 resettable vends counted for selection 1. Pressing select button 1 will return to **"SALE"/"####"/"####"**. Press select button 1 to return to **"SALE"**.

Press select button 2 to scroll to the next routine.

* "PRIC" -   PRICE SETTING ROUTINE

This function allows the user to set pricing. When Configuration Switch 1 is programmed to **"C1 1"**, multi-pricing is on and a price for each selection needs to be set.

Press select button 4 and **"PR1"** will show on the display.
Press select button 4 to set the price on select button 1, **"00.00"** or current price setting will show on the display.
Press select button 2 or 3 to change the price setting for selection 1.
Press select button 4 to enter the price selected and the display will return to **"PR1"**.
Press select button 2 to scroll to the next selection you wish to set price. Press select button 4, set the price and enter the price. Repeat these steps for each select button until all prices are set. Note: Selections go PR1 through ALL.

If Configuration Switch 1 is programmed to "C1 O", single price, set SPRI1 as described above. The price entered for SPRI1 will be set for all selections.
Press select button 1 to return to **"PRIC"**.
Press select button 2 to scroll to the next routine.

* "STS" -   SPACE-TO-SALES ROUTINE

This function allows you to change the space-to-sales settings.
Press select button 4 and **"OPT#"** or **"CSTS"** will show on the display, this indicates the current space-to-sales option.
Press select button 2 or 3 to scroll through the options.
Press select button 4, with the desired option showing on the display, to save that option and return to **"STS"**.
Space-to-Sales Options:

SELECT / COLUMN OPTIONS

Select #	DN504P					
	Opt 1	Opt 2	Opt 3	Opt 4	Opt 5	Opt 6
1	1	1	1	1	1	1
2	1	1	1	1	1	1
3	2	2	2	2	2	2
4	3	3	3	3	3	3
5	4	4	4	4	4	4
6	5	5	5	5	5	5
7	6	6	6	6	6	6
8	7	7	7	7	7	7

NA = Not Applicable

"CSTS" - Custom space-to-sales allows you to assign columns to select buttons.
Press select button 4 and **"SL#/##"** will alternate showing on the display. **SL#** is the select button number and **##** is the column(s) currently assigned or **"NONE"**.
Press select button 4 and **"CO#"** will show on the display. **"CO#"** is the column number to be added or deleted to select button.
Press select button 4 and **"CO # #"** will show on the display with **#** blinking on the display; 0 = off or delete, 1 = on or add.
Press button 2 to scroll between 0 and 1. With the setting you wish to use showing on the display press select #4 and return to **"CO#"**.
Press select button 1 will return to **"SL#/#"**.
Press select button 1 again will go to **"SAVE"**.
Press select button 4 to save and display will go to **"STS"**.
Repeat steps above to add/delete columns to each selection.
Press select button 2 to scroll to next routine.

* **"CON"   -   MACHINE CONFIGURATION**
This function allows the user to access and change the programming of the following machine configuration settings. If you press select button 4 and the display shows **"LOC"**, this means configuration setting changes will not be allowed. If **"C1"** is displayed, then configuration setting changes will be allowed. **"LOC"** can only be enabled or disabled through DEX programming. If **"C1"** is displayed, the listed settings are available. Note: You must press select button 4 with the configuration code displayed if you wish to enter the edit mode. The **"0"** or **"1"** will be flashing to acknowledge you are in the edit mode.
IMPORTANT: All machine configuration codes are disabled coming from the factory (**C #0**).

C1 - Configuration Switch 1 - Multi-Price Setting Mode
This code is used to enable the single price mode **"C1 O"** or multi-price mode **"C1 1"**.
Press select button 4 and **"C1 #"** will be displayed, with the **"#"** flashing.
Press select buttons 2 or 3 to scroll between **"C1 O"** and **"C1 1"**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C1 #"** and keep the original setting.
Press select button 2 to scroll to **"C2 #"**.

C2 - Configuration Switch 2 - Optional Features Enable
This code is used to <u>allow</u> (C2 1) the following optional features <u>to be displayed and enabled</u>:
 "DISC", "OVER", "BLC1", "BLC2", and **"SDEP"**.
Press select button 4 and **"C2 #"** will be displayed with the **#** flashing.
Press select buttons 2 or 3 to scroll between **"C2 0"** and **"C2 1"**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C2 #"** and keep the original setting.
Press select button 2 to scroll to **"C3"**.

C3 - Configuration Switch 3 - POS Message
This code is used to disable the point of sale message. **C3 0** = enabled, **C3 1** = disabled.
Press select button 4 and **"C3 #"** will be displayed, with the **"#"** flashing.
Press select buttons 2 or 3 to scroll between **"C3 0"** and **"C3 1"**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C3 #"** and keep the original setting.
Press select button 2 to scroll to **"C4"**.

C4 - Configuration Switch 4 - Automatic Viewing of Historical Sales and Cash Accounting, EROR or NONE
This code is used to enable viewing of historical sales and cash, and **EROR** or **NONE** automatically when the door is opened. To enable automatic viewing option enter **"C4 1"**; to disable enter **"C4 0"**.
At **"C4 0"** any existing errors or **"NONE"** is automatically displays when the door is open.
Press select button 4 and **"C4 #"** will be displayed, with the **"#"** flashing.
Press select button 2 or 3 to scroll between **"C4 0"** and **"C4 1"**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C4 #"** and keep the original setting.
Press select button 2 to scroll to **"C5"**.

C5 - <u>Configuration Switch 5 - Door Switch Reset Status</u>
This code is used to reset all resettable data when the door switch is cycled and at least one data register is read via the display when set at **"C5 1"** or to reset all resettable data only when the **"RESET"** command is received via handheld or portable computer when set at **"C5 0"**.
Press select button 4 and **"C5 #"** will be displayed, with the **"#"** flashing.
Press select buttons 2 or 3 to scroll between **"C5 0"** and **"C5 1"**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C5 #"** and keep the original setting.
Press select button 2 to scroll to **"C6"**.

C6 - <u>Configuration Switch 6 - Reserved</u>
This code is reserved for future use.
Press select button 2 to scroll to **"C7"**.

C7 - <u>Configuration Switch 7 - Save Credit</u>
This code is used to determine how long a credit will be saved.
C7 0 will save the credit for five minutes. **C7 1** will save the credit indefinitely.
Press select button 4 and **"C7 #"** will be displayed, with the **"#"** flashing.
Press select button 2 or 3 to scroll between **C7 0** and **C7 1**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C7 #"** and keep the original setting.
Press select button 2 to scroll to **"C8"**.

C8 - <u>Configuration Switch 8 - Force Vend</u>
This code is used to determine escrow to select or escrow to price.
C8 0 will set vender to escrow to select and **C8 1** will set vender to escrow to price.
Press select button 4 and **"C8 #"** will be displayed, with the **"#"** flashing.
Press select button 2 or 3 to scroll between **C8 0** and **C8 1**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C8 #"** and keep the original setting.
Press select button 2 to scroll to **"C9"**.

C9 - <u>Configuration Switch 9 - Multi Vend</u>
This code is used to allow multiple vends without re-depositing funds.
C9 0 will not allow multiple vends and **C9 1** will allow multiple vends.
Press select button 4 and **"C9 #"** will be displayed, with the **"#"** flashing.
Press select button 2 or 3 to scroll between **C9 0** and **C9 1**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C9 #"** and keep the original setting.
Press select button 2 to scroll to **"C10"**.

C10 - <u>Configuration Switch 10 - Bill Escrow Inhibit</u>
This code is used to allow last bill that meets or exceeds maximum vend price to be held in escrow.
C10 0 will escrow bill and **C10 1** will not escrow bill.
Press select button 4 and **"C10 #"** will be displayed, with the **"#"** flashing.
Press select button 2 or 3 to scroll between **C10 0** and **C10 1**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C10 #"** and keep the original setting.
Press select button 2 to scroll to the next configuration code.
Press select button 1 to return to **"CON"**.
Press select button 2 will scroll to next routine.

*"CCOC"   -   CORRECT CHANGE ONLY CONTROL ROUTINE

This function is used to allow consumer overpay, set a correct change value, and set an unconditional acceptance value.

Press select button 4 will display **"CON#"** where # is the current setting of allow consumer overpay. Press select button 2 or 3 to scroll to **"CCU"** or **"ACC"**.

"CON#" -   Allow Consumer Overpay
This function allows the vender to vend with the risk of not being able to return the full amount of change. This function has to be turned on**"CON1"** to use the value set in **"ACC"**.
Press select button 4 and display will show **"CON#"** with the **#** flashing.
CON1 will allow consumer overpay (customer could potentially be shortchanged) and **CON0** will not allow consumer overpay (will not allow customer to be shortchanged).
Press select button 2 or 3 to scroll between **CON0** and **CON1**.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to **"C10 #"**and keep the original setting.
Press select button 2 to scroll to **"CCU"**.

"CCU" -   Correct Change Value
This is the function that the control board will use to set a value which will turn on the correct change indicator. **Note: The "CCU" must be equal to or greater than the "ACC".**

Note: If the value set is 00.00, the correct change indicator will never come on.
If the controller determines that it cannot return the exact amount of the correct change value or any value less than it then the indicator will be turned on.
Press select button 4 and the display will show **"##.##"** with leading zeros not being displayed.
Press select button 2 or 3 to scroll from.00 to 99.99.
Press select button 4 with the display showing the value you wish to use to accept that value, or select button 1 to keep the original value displayed. Display will return to **"CCU"**
Press select button 2 to scroll to **"ACC"**.

"ACC" -   Unconditional Acceptance Value
This is the function that the control board will use to set the largest value of any single form of currency (coin or bill) that can be accepted. . **Note: if "ACC" is set to a value greater than "CCU" the "CCU" value will be automatically set equal to the "ACC" value.**
Press select button 4 and the display will show **"##.##"** with leading zeros not being displayed.
Press select button 2 or 3 to scroll from.00 to 99.99.
Press select button 4 with the display showing the value you wish to use to accept that value, or select button 1 to keep the original value displayed. Display will return to **"ACC"**.
Press select button 1 to return to **"CCOC"**.
Press select button 2 to scroll to next routine.

*"PREV" -   PREVIEW DATA PASSWORD ROUTINE

This function is used to enable viewing of cash collected, product sales, and error codes without opening the door. To view the data the 4 digit password (4-2-3-1) must be entered with the door closed. Once entered the **"CASH", "SALE", "EROR"**, and **"RTN"** menus are available from the front of the vender. To view, follow instructions for cash counter routine, sales counter routines, error routine and return.

To change **"PREV"** password:
At **"PREV"** press select button 4, **"####"** (representing current four digit password) will show on display with the far left digit blinking. Press select button 2 or 3 to scroll to number desired for password. Press select button 4 to accept the flashing digit. The next digit will start blinking, press select button 2 or 3 to scroll to number desired for password. Press select button 4 to accept the flashing digit. Continue this process until all 4 digits are set. Then press select button 4 and the display will return to **"PREV"** and the new password has been saved. Pressing select button 1 at anytime during this routine will return to **"PREV"** with no changes to password occurring.

Press select button 2 to scroll to next routine.

*"LANG" -   LANGUAGE

This function is used to set the language that will be used for display messages. *Note: This does not change the menu prompts.*

Press select button 4 and the display will show the language currently set in the controller.

Press select button 2 or 3 to scroll through the languages available.

ENG -	English	**ITA** -	Italian	**SLO** -	Slovene
FRN -	French	**PORT** -	Portuguese	**FIN** -	Finnish
GER -	German	**ESP** -	Spanish	**NOR** -	Norwegian

With the language you wish to enter showing on the display, press select button 4 and display will return to **"LANG"**. Pressing select button 1 at anytime during this routine will return to **"LANG"** with no changes to password occurring.

Press select button 2 to scroll to next routine.

*"TIME" -   TIME AND DATE SETTING ROUTINE

This function is used to set the year, month, date, and hour (military 24 hour clock).

Press select button 4 and **"ENB#"** will show on display with **#** showing the current setting for the enable routine.

> **"ENB#"** -   Time and Date Enable Routine
> Press select button 4 and **#** will flash.
> Press select button 2 to scroll between **ENB0** and **ENB1**.
>
> Press select button 4 with the display showing the setting you wish to use and display will return to **"ENB#"**.
> Press select button 2 to scroll to **"YEAR"**.

> **"YEAR"** -   Year Setting (2000 to 2099)
> Press select button 4 and the current year setting will show on display.
> Press select button 2 or 3 to change the year (2000 to 2099).
> After pressing select button 4 to accept the year on the display, or select button 1 to keep the year originally displayed, the display will return to **"YEAR"**.
> Press select button 2 to scroll to **"MTH"**.

> **"MTH"** -   Month Setting (01 to 12)
> Press select button 4 and the current 2 digit month setting will show on display.
> Press select button 2 or 3 to change the month (01 to 12).
> After pressing select button 4 to accept the month on the display, or select button 1 to keep the month originally displayed, the display will return to **"MTH"**.
> Press select button 2 to scroll to **"DATE"**.

> **"DATE"** -   Day of Month Setting (1 to 31)
> Press select button 4 and the current 2 digit day of month setting will show on display.
> Press select button 2 or 3 to change the day of month (1 to 31).
> After pressing select button 4 to accept the date on the display, or select button 1 to keep the date originally displayed, the display will return to **"DATE"**.
> Press select button 2 to scroll to **"HOUR"**.

> **"HOUR"** -   Hour and Minute Setting (0000 to 2359)
> Press select button 4 and **"hhmm"** will be displayed, where **"hh"** is the hour (military time) and **"mm"** is the minute.
> The hour setting will be blinking to indicate it can be changed. Press select button 2 or 3 to change the hour setting. Press select button 4 to save the hour setting and the minute setting will start blinking to indicate it can be changed. Press select button 2 or 3 to change the minute setting. Press select button 4 will save and return display to **"HOUR"**.
> Pressing select button 1 at anytime during this routine will return to **"HOUR"** with no changes to the hour or minute settings occurring.
> Press select button 2 to scroll to **"DST"**.

"DST" - Daylight Saving Time Setting
This function is used to set the preferred daylight savings time setting.
Press select button 4 will display the current setting.
Press select button 2 or 3 to scroll through the **"DST"** options listed:
> **"OFF"**, no daylight savings time changes made.
> **"AUS"**, Australian rules - Set forward 1 hour at 1:00 am on the first Sunday in October; Set backward 1 hour at 1:00 am on the last Sunday in March.
> **"EU"** European rules - Set forward 1 hour at 1:00 am on the last Sunday in March; Set backward 1 hour at 1:00 am on the last Sunday in October.
> **"NA"** North American rules - Set forward 1 hour at 2:00 am on the first Sunday in April; Set backward 1 hour at 2:00 am on the last Sunday in October.

Press select button 4 with the display showing the setting you wish to use and display will return to **"DST"**.
Pressing select button 1 at anytime during this routine will return to **"DST"** with no changes to the Daylight Savings Time settings occurring.
Press select button 1 to return to **"TIME"**.
Press select button 2 to scroll to next routine.

*"LIT" – LIGHTING CONSERVATION CONTROL ROUTINE)

This function is used to turn the lights off and on during certain periods of the day.
Press select button 4 will enter **"ENB#"** with the current ENB setting displayed.

ENB# - Lighting Conservation Control Enable Routine

This function is used to disable Lighting Conservation Control **"ENB0"** (lights will be on at all times) or enable Lighting Conservation Control **"ENB1"** (lights can be set to turn off).
Press select button 4 and the # will begin to flash.
Press select button 2 or 3 to scroll between **"ENB0"** and **"ENB1"**.
Press select button 4 with the display showing the setting you wish to use and the display will return to a solid **"ENB#"**.
Press select button 2 to scroll to **"STRT"**.

STRT - Start Lighting Conservation Setting (lights off)
This function is used to set the days and time to start Light Conservation when **"ENB 1"** is selected.
Press select button 4 and **"DAY"** will show on the display.

"DAY" - Day to Start Setting.
This function is used to set the days of the week to start Light Conservation.
Press select button 4 and **"xxx#"** will show on the display, where **xxx** will be the day of the week (i.e. MON, TUE, WED, THU, FRI, SAT, SUN, ALL) and **#** is **0** = disable, **1** = enable. With the display showing the day you wish to set press select button 4. The # will start blinking. Press select button 2 or 3 to scroll between **"xxx0"** and **"xxx1"**. Press select button 4 with the display showing the setting you wish to use. Display will return to **"xxx#"**. Press select button 2 to scroll to the next day to set or press select button 1 to return to **"DAY"**.
Press select button 2 to scroll to **"HOUR"**.

"HOUR" - Start Hour and Minute Setting
This function is used to set the hours to start Light Conservation (lamps off).
Press select button 4 and **"hhmm"** will show on the display, where **"hh"** is the hour (military time) and **"mm"** is the minute. **"hh"** will be blinking, indicating the hour setting may be changed. Press select button 2 to scroll from 00 to 23. With the display showing the hour you wish to start Light Conservation, press select button 4. **"mm"** will start blinking, indicating the minute setting may be changed. Press select button 2 to scroll from 00 to 59. With the display showing the minute you wish to start Light Conservation, press select button 4. The display will return to **"HOUR"**.
Press select button 1 to return to **"STRT"**.
Press select button 2 to scroll to **"STOP"**.

"STOP" - Stop Light Conservation Setting (lights on)
This function is used to set the days and time to stop Light Conservation.
Press select button 4 and "DAY" will show on the display.

    "DAY" - Day To Stop Setting
This function is used to set the days of the week to stop Light Conservation and can be set in the same manner as Day to Start Setting.

    "HOUR" - Stop Hour and Minute Setting
This function is used to set the hours and minutes to stop Light Conservation and can be set in the same manner as Start Hour and Minute Setting.
Press select button 1 to return to "STOP".
Press select button 1 to return to "LIT".
Press select button 2 to scroll to next routine.

*"RFRG" – REFRIGERATION ROUTINE

This function is used to electronically control the refrigeration operations of the vender. Press select button 4 will enter "ENB#" with # showing the current "ENB" setting.

    ENB# - Energy Conservation Enable Routine
This function is used to disable Energy Conservation "ENB0" or enable Energy Conservation "ENB1". When enabled the cabinet temperature will be allowed to rise to the programmed storage level "STOR" during the following programmed time blocks.

Press select button 4 and the current "ENB#" setting (#) will start flashing.
Press select button 2 or 3 to scroll between "ENB0" and "ENB1".
Press select button 4 with the display showing the setting you wish to use and the display will return to a solid "ENB#".
Press select button 2 to scroll to "STRT".

    "STRT" - Start Energy Conservation
This function is used to set the days and time to start Energy Conservation when "ENB1" is selected.
Press select button 4 and "DAY" will show on the display.

    "DAY" - Day to Start Setting
This function is used to set the days of the week to start Energy Conservation.
Press select button 4 and "xxx#: will show on the display, where xxx will be the day of the week (i.e. MON, TUE, WED, THU, FRI, SAT, SUN, ALL) and # is 0 = disable, 1 = enable. With the display showing the day you wish to set press select button 4. The # will start blinking. Press select button 2 or 3 to scroll between "xxx0" and "xxx1". Press select button 4 with the display showing the setting you wish to use. Display will return to "xxx#". Press select button 2 to scroll to the next day to set or press select button 1 to return to "DAY".
Press select button 2 to scroll to "HOUR".

    "HOUR" - Start Hour and Minute Setting
This function is used to set the hours to start Energy Conservation.
Press select button 4 and "hhmm" will show on the display, where "hh" is the hour (military time) and "mm" is the minute. "hh" will be blinking, indicating the hour setting may be changed. Press select button 2 to scroll from 00 to 23. With the display showing the hour you wish to start Energy Conservation, press select button 4. "mm" will start blinking, indicating the minute setting may be changed. Press select button 2 to scroll from 00 to 59. With the display showing the minute you wish to start Energy Conservation, press select button 4. The display will return to "HOUR".
Press select button 1 to return to "STRT".
Press select button 2 to scroll to "STOP".

"STOP" - Stop Energy Conservation Setting
This function is used to set the days and time to stop Energy Conservation when "ENB1" is selected.
Press select button 4 and "DAY" will show on the display.

> **"DAY"** - Day To Stop Setting
> This function is used to set the days of the week to stop Energy Conservation and can be set in the same manner as Day to Start Setting.

> **"HOUR"** - Stop Hour and Minute Setting
> This function is used to set the hours and minutes to stop Energy Conservation and can be set in the same manner as Start Hour and Minute Setting.
> Press select button 1 to return to "STOP".
> Press select button 2 to scroll to "DEGX".

"DEGX" - Degree Fahrenheit / Celsius Setting Routine (X is the current setting F or C)
This function is used to set the degree reading to Fahrenheit (DEGF) or Celsius (DEGC).
Press select button 4 and "DEGX", where the current setting (X) will be blinking. Press select button 2 or 3 to scroll between DEGF and DEGC.
Press select button 4 with the display showing the setting you wish to use and the display will return to a solid "DEGX", or press select button 1 to keep the original setting before returning to the solid "DEGX" display.
Press select button 2 to scroll to **"SETP"**.

"SETP" - Set Point Control Routine (Default Temperature 35^0F / 1.5^0 C)
This function is used to set the average product temperature for initial pull down and reload recovery.
Press select button 4 and "tt.tx" will show on the display where x is F (Fahrenheit) or C (Celsius) and tt.t is the degrees.
Press select button 2 to increase or 3 to decrease the number by $1°$F or $0.5°$C. With the display showing the set point temperature you wish to use, press select button 4.
Pressing select button 1 while in this submenu will return to the "SETP" prompt and keep the original "SETP" setting.
Press select button 2 to scroll to "STOR".

"STOR" - Storage Setting Routine (Default Temperature 60^0F / 15.5^0 C)
This function is used to set the temperature for product storage and is used when Energy Conservation is enabled.
Press select button 4 and "tt.tx" will show on display when x is F (Fahrenheit) or C (Celsius) and tt.t is the degrees.
Press select button 2 to increase and 3 to decrease the number by $1°$F or $0.5°$C. With the display showing the storage setting you wish to use, press select button 4.
Pressing select button 1 while in this submenu will return to the "STOR" prompt and keep the original "STOR" setting.
Press select button 2 to scroll to "DSPX".

"DSPX" - POS Temperature Display Enable Routine
This function is used to enable the POS Temperature to be displayed following the **"ICE COLD COCA COLA"** POS message.
Press select button 4 and "DSPX" will show on the display where x is the current setting. With "X" blinking, press select button 2 or 3 to scroll between "DSPO" disabled or not displayed and DSP1 enabled or displayed. With the display showing the setting you wish to use, press select button 4.
Press select button 1 to return to "RFRG".
Press select button 2 to scroll to next routine**.**

*"BLC1" - BLOCK SELECTION BANK 1 ROUTINE (CON 2 must be enabled - C2 1)
This function is used to set selections which will be blocked during certain periods of the day.
Press select button 4 will enter "ENB#" with # being the current enable setting(0 or 1).

"ENB#" -   Blocking Enable Routine
This function is used to disable blocking "ENB0" or enable blocking "ENB1".
When enabled, active selections will not be allowed to vend on the days and times programmed.
Press select button 4 and the current ENB setting will flash.
Press select button 2 or 3 to scroll between "ENB0" and "ENB1".
Press select button 4 with the display showing the setting you wish to use.
Display will return to a solid "ENB#".
Press select button 2 to scroll to "STRT".

"STRT" -   Start Selection Blocking Routine
This function is used to set the day(s) and time to start selection blocking when blocking is enabled ("ENB1").
Press select button 4 and "DAY" will show on the display.

"DAY" -   Day of Week Start Setting
This function is used to set the day(s) of the week to start selection blocking.
Press select button 4 and "xxx#" will show on the display, where xxx will be the day of the week (i.e. MON, TUE, WED, THU, FRI, SAT, SUN, ALL) and # is 0 = disable, 1 = enable. With the display showing the day you wish to set press select button 4. The # will start blinking. Press select button 2 or 3 to scroll between "xxx0" and "xxx1."
Press select button 4 with the display showing the setting you wish to use. Display will return to "xxx#'.
Press select button 2 to scroll to the next day to set or press select button 1 to return to "DAY". Press select button 2 to scroll to "HOUR".

"HOUR" -   Start Hour and Minute Setting
This function is used to set the hours and minutes to start selection blocking.
Press select button 4 and "hhmm" will show on the display, where hh is the hour (military time) and mm is the minute. "hh" will be blinking, indicating the hour setting may be changed.
Press select button 2 to scroll from 00 to 23. With the display showing the hour you wish to start selection blocking, press select button 4. "mm" will then start blinking, indicating the minute setting may be changed.
Press select button 2 to scroll from 00 to 59. With the display showing the minute you wish to start selection blocking, press select button 4. The display will return to "HOUR".
Press select button 1 to return to "STRT".
Press select button 2 to scroll to "STOP".

"STOP" -   Stop Selection Blocking Routine
This function is used to set the day(s) and times to stop selection blocking.
Press select button 4 and "DAY" will show on the display.

"DAY" -   Day of Week Stop Setting
This function is used to set the days of the week to stop selection blocking and can be set in the same manner as Day of Week Start Setting.

"HOUR" -   Stop Hour and Minute Setting
This function is used to set the hours and minutes to stop selection blocking and can be set in the same manner as Start Hour and Minute Setting.
Press select button 1 to return to "STOP".
Press select button 2 to scroll to "SEL".

"SEL" -   Selection To Be Affected By Blocking
This function is used to set selection(s) which will be blocked during certain periods of the day.
Press select button 4 and XX# will be displayed, where XX is the selection number and # is the
current setting for the selection number displayed. 0 = disabled, 1 = enabled.
Press select button 2 or 3 to scroll to the select button number setting you desire to change.
Press select button 4 with the select button number showing you wish to change (i.e. 01#) and
the # will start flashing.
Press select button 2 or 3 to scroll between xx 0 and xx 1.
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display flashing the enable setting will keep the original setting.
Display will return to a solid XX #.
Press select button 1 to return to "SEL".
Press select button 2 to scroll to "LITX".

"LITX" -   Lighting / P.O.S. Display Control
This function is used to turn the lights (if supported) off during selection blocking period 1.
0 = disable or on; 1 = enable or off.
Press select button 4 and the "X" will start flashing.
Press select button 2 or 3 to scroll between "LIT0" and "LIT1".
Press select button 4 with the display showing the setting you wish to use to save the setting.
Press select button 1 with the display flashing the light setting will keep the original setting.
Display will return to "LITX".
Press select button 1 to return to "BLC1".
Press select button 2 to scroll to "BLC2".

*"BLC2" - BLOCK SELECTION BANK 2 ROUTINE (CON 2 must be enabled - C2 1)
This function is a second set used to set selection(s) which will be blocked during certain periods of the day.
Press select button 4 will enter "ENB#" with # being the current enable setting.

"ENB#" -   Blocking Enable Routine.
Set this function using instruction for "ENB#" in "BLC1".

"STRT" -   Start Selection Blocking Routine
This function is used to set the day(s) and times to start selection blocking.
Press selection button 4 and "DAY" will show on the display.

"DAY" -   Day of Week Start Setting
Set this feature using instructions for "BLC1" "STRT" "DAY".

"HOUR" - Start Hour and Minute Setting
Set this function using instructions for "BLC1" "HOUR" "DAY".

"STOP" -   Stop Selection Blocking Routine.
This function is used to set the day(s) and times to stop selection blocking.
Press select button 4 and "DAY" will show on the display.

"DAY" -   Day of Week Stop Setting
Set this function using instructions for "BLC1" "STOP" "DAY".

"HOUR" -   Stop Hour and Minute Setting
Set this function using instructions for "BLC1" "STOP" "HOUR".
Press select button 1 to return to "STOP".
Press select button 2 to scroll to "SEL".

"SEL" -   Selection To Be Affected By Blocking
This function is used to set selection(s) which will be blocked during certain periods of the day.
Set this function using instructions for "BLC1" "SEL".
Press select button 1 to return to "SEL".
Press select button 2 to scroll to "LITX".

"LITX" - Lighting / P.O.S. Display Control
This function is used to turn the lights (if supported) off during selection blocking period 2.
Set this function using instructions for "BLC1" "LIT".
Press select button 1 to return to "BLC2".
Press select button 2 to scroll to "DISC".

*"DISC"   -   DISCOUNT SETTING ROUTINE (CON 2 must be enabled - C2 1)

This function is used to set the day(s) and times to allow discount prices.
Press select button 4 will enter "ENB#" with # being the current enable setting.

"ENB#" - Discount Setting Enable Routine
This function is used to disable discounting "ENB0" or enable discounting "ENB1".
Press select button 4 and the current ENB setting will flash.
Press select button 2 or 3 to scroll between "ENB0" and "ENB1".
Press select button 4 with the display showing the setting you wish to use.
Display will return to a solid "ENB#".
Press select button 2 to scroll to "STRT".

"STRT" - Start Discount Pricing
This function is used to set the day(s) and times to start discount prices.
Press select button 4 and "DAY" will show on the display.

"DAY" - Day of the Week Start Setting
Set this feature using instructions for "BLC1" "STRT" "DAY".

"HOUR" - Start Hour and Minute Settings
Set this feature using instructions for "BLC1" "STRT" "HOUR".

"STOP" - Stop Discount Pricing
This function is used to set the day(s) and times to stop discount prices.
Press select button 4 and "DAY" will show on the display.

"DAY" - Day to Stop Setting
Set this feature using instructions for "BLC1" "STOP" "DAY".

"HOUR" - Stop Hour and Minute Setting
Set this function using instructions for "BCL1" "STOP" "HOUR".

"SEL" - Selection Affected by Discount Pricing
This function is used to set selection(s) which will be affected by discount prices.
Press select button 4 and "XX#" will be displayed, whereXX is the selection number and # is the current setting for the selection number displayed. 0 = disabled, 1 = enabled.
Press select button 2 or 3 to scroll to the select button number you desire to change.
Press select button 4 with the select button number showing you wish to change (i.e.01#) and the # will start flashing.
Press select button 2 or 3 to scroll between "XX 0" and "XX 1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display flashing the enable setting will keep the original setting.
Display will return to a solid XX #.
Press select button 1 to return to "SEL".
Press select button 2 to scroll to "LESS".

"LESS" - Discount Amount
This function is used to set the amount the price will be decreased for selection(s) and times set. Press select button 4 and "##.##" will be displayed, where "##.##" is the current discount that is set. Press select button 2 or 3 to change the discount amount(.00 to 99.99).
Press select button 4 with the display showing the discount setting you wish to use to save that setting.
Press select button 1 with the display showing the discount setting will keep the original setting.
Display will show "LESS"..

Press select button 1 to return to "DISC".
Press select button 2 to scroll to "OVER".

"OVER" - MANUAL SWITCH OVER-RIDE ROUTINE (CON 2 must be enabled - C2 1)

This function is used to allow a key switch (Key Switch Kit 626,020,44x.x4) to over-ride some of the settings stored for normal operations.

This function can be programmed to control one or several of the following features: Free Vend Enable, Vend Enable, Selection Blocking, Discount Pricing, Lighting Control and Refrigeration Control.

Press select button 4 and the display will show "FRE#".

Press select button 2 or 3 to scroll through the over-ride routines available.

Press select button 1 to return to "OVER".

"FRE#" -   Free Vend Enable Routine
This function is used to set the vender to Free Vend. 0 = disable, 1 = enable.
Press select button 4 and "#" will start flashing.
Press select button 2 or 3 to scroll between "FREO" and "FRE1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Free Vend setting will keep the original setting.
Display will return to "FRE#".
Press select button 2 to scroll to "UND#".

"VND#" -   Vend Enable Routine
This function is used to set the vender to Override Vending. 0 = disable (allow Vending), 1 = enable (don't allow Vending).
Press select button 4 and "#" will start flashing.
Press select button 2 or 3 to scroll between "UNDO" and "UND1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Vend Override setting will keep the original setting.
Display will return to "UND#".
Press select button 2 to scroll to "BLC#".

"BLC#" -   Selection Blocking Over-ride Routine
This function is used to over-ride "BLC1" and "BLC2" if they are being used. "BLCO" is disabled (allow BLC1 and BLC2), "BLC1" is enabled(don't allow BLC1 and BLC2).
Press select button 4 and "#" will start flashing.
Press select button 2 or 3 to scroll between "BLCO" and "BLC1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Blocking Override setting will keep the original setting.
Display will return to "BLC#".
Press select button 2 to scroll to "DSC#".

"DSC#" -   Discounting Over-ride Routine
This function is used to over-ride "DISC" if it is being used. "DISC0" is disabled (allow Discounting) and "DISC1" is Enabled(don't allow Discounting).
Press select button 4 and "#" will start flashing.
Press select button 2 or 3 to scroll between "DSC0" and "DSC1"
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Discounting Override setting will keep the original setting.
Display will return to "DSC#".
Press select button 2 to scroll to "LIT#".

"LIT#" - Lighting Control Over-ride Routine
This function is used to over-ride "LIT'" if it is being used. "LIT0" is disabled (allow Lighting Control) and "LIT1" is enabled (don't allow Lighting Control).
Press select button 4 and "#" will start flashing.
Press select button 2 or 3 to scroll between "LIT0" and "LIT1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Lighting Control Override setting will keep the original setting. Display will return to "LIT#". Press select button 2 to scroll to " FRG#".

"FRG#" - Refrigeration Control Over-ride Routine
This function is used to over-ride "RFRG'" if it is being used. "FRG0" is disabled (allow Refrigeration Control) and "FRG1" is enabled (don't allow Refrigeration Control).
Press select button 4 and "#" will start flashing.
Press select button 2 or 3 to scroll between "FRG0" and "FRG1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Refrigeration Control Override setting will keep the original setting.
Display will return to "FRG#".
Press select button 1 to return to "OVER".
Press select button 2 to scroll to "SDEP".

"SDEP" - SET COLUMN DEPTH ROUTINE (CON 2 must be enabled – "C2 1" – This must be set before setting package type to "CUSTOM")
This function is used to set the product depth for the selected column.
Press select button 4 and the display will show "XX #" where XX is the column number and # is the product depth for that column..
Press select button 4 and the # (depth) will flash.
Press select button 2 or 3 to set the product depth(1 – 5).
Press select button 4 to accept the displayed depth, or select button 1 to keep the original depth.
Press select button 2 or 3 to scroll through the columns available.
Repeat setting the depth for remaining columns.
Press select button 1 to return to "SDEP".
Press select button 2 to scroll to "RVND".

*"RVND" -   REMOTE VEND MECHANISM ROUTINE
This function is used to set the day(s) and times to activate the vend operation in a satellite vending device.
Press select button 4 will enter " STRT.

"STRT" - Start Satellite Vending Operation
This function is used to set the day(s) and times to start satellite vending.
Press select button 4 and "DAY" will show on the display.

"DAY" - Day of Week Start Setting
This function is used to set the day(s) of the week to start satellite vending.
Press select button 4 and "xxx#" will show on the display, where xxx will be the day of the week (i.e. MON, TUE, WED, THU, FRI, SAT, SUN, ALL) and # is 0 = disable, 1 = enable.
With the display showing the day you wish to set press select button 4.
The # will start blinking. Press select button 2 or 3 to scroll between "xxx0" and "xxx1."
Press select button 4 with the display showing the setting you wish to use.
Display will return to "xxx#'.
Press select button 2 to scroll to the next day to set or press select button 1 to return to "DAY".
Press select button 2 to scroll to "HOUR".

"HOUR" - Start Hour and Minute Setting

This function is used to set the hours and minutes to start satellite vending.

Press select button 4 and "hhmm" will show on the display, where hh is the hour (military time) and mm is the minute. "hh" will be blinking, indicating the hour setting may be changed.

Press select button 2 to scroll from 00 to 23. With the display showing the hour you wish to start selection blocking, press select button 4. "mm" will then start blinking, indicating the minute setting may be changed.

Press select button 2 to scroll from 00 to 59. With the display showing the minute you wish to start selection blocking, press select button 4. The display will return to "HOUR".

Press select button 1 to return to "STRT".

Press select button 2 to scroll to "STOP".

"STOP" - Stop Satellite Vending Operation

This function is used to set the day(s) and times to stop satellite vending.

Press select button 4 and "DAY" will show on the display.

"DAY" - Day of Week Stop Setting

This function is used to set the days of the week to stop satellite vending and can be set in the same manner as Day of Week Start Setting.

"HOUR" - Stop Hour and Minute Setting

This function is used to set the hours and minutes to stop satellite vending and can be set in the same manner as Start Hour and Minute Setting.

Press select button 1 to return to "STOP".

Press select button 2 to scroll to "SEL".

"SEL" - Selection To Be Affected By Satellite Vending

This function is used to set selection(s) which will be cause a satellite vending operation during certain periods of the day.

Press select button 4 and XX# will be displayed, where XX is the selection number and # is the current setting for the selection number displayed. 0 = disabled, 1 = enabled.

Press select button 2 or 3 to scroll to the select button number setting you desire to change.

Press select button 4 with the select button number showing you wish to change (i.e. 01#) and the # will start flashing.

Press select button 2 or 3 to scroll between xx 0 and xx 1.

Press select button 4 with the display showing the setting you wish to use to save that setting.

Press select button 1 with the display flashing the enable setting will keep the original setting.

Display will return to a solid XX #.

Press select button 1 to return to "SEL".

Press select button 2 to scroll to "RATE".

" RATE " - Satellite Vend Rate

This function is used to set the number of vends from the programmed selection that will occur before a satellite vend operation is done(rate = 3, every third vend from a programmed selection will cause a satellite vend to be done).

Press select button 4 and "XXX" will be displayed, where "XXX" is the current satellite vend rate. Press select button 2 or 3 to change the vend rate(0 – 255, a vend rate of 0 will disable the remote vend operation).

Press select button 4 with the display showing the vend rate setting you wish to use to save that setting.

Press select button 1 with the display showing the vend rate setting will keep the original setting. Display will show "RATE"..

Press select button 1 to return to "RVND".

Press select button 2 to scroll to "PACG".

*"PACG" -   PACKAGE TYPE SETTING ROUTINE
This function is used to set the package type for any or all columns in the vending machine.
Press select button 4 will enter " XX #", where XX is the column number and # is the current package type.
Press select button 2 or 3 to scroll through the column numbers or "ALL" for all columns
Press select button 4 and # will flash allowing the package type to be selected.
Press select button 2 or 3 to scroll through the package types (1 – 5 or "C" for custom).
Press select button 4 to accept the displayed package type or select button 1 to keep the current package type. If package type is "1" through "5" go to ""SAVE" will be displayed" instructions.
"ANGL" - CUSTOM ANGLE SETTING ROUTINE
If Custom package type is selected "ANGL" is displayed. Press select button 1 to exit without setting angles, or select button 4 to enter angle setting routine.
"1" is displayed for product position 1. Select buttons 2 and 3 will scroll up or down through the product depth set for that column in the "SDEP" menu. **IF "SDEP" ISN'T SET BEFORE SETTING A CUSTOM PACKAGE TYPE, THE DEPTH WILL DEFAULT TO THE DEPTH FOR THE LAST PACKAGE TYPE**.

Press select button 4 at the position prompt and "Hxxx" will be displayed with the xxx flashing, this is the hold angle for the product position last displayed

Press select button 2 or 3 to scroll the hold angle setting up or down (0 – 359). Press select button 4 to accept the displayed angle.
"Vxxx" will be displayed, this is the vend angle for the last product position displayed.
Press select button 2 or 3 to scroll the vend angle setting up or down (0 – 359). Press select button 4 to accept the displayed angle.
Press select button 1 after the angles have been set for all the product positions.
COMMON PACKAGE SETTING INSTRUCTIONS RESUME HERE
"SAVE" will be displayed.
Press select button 1 to keep the current package type and "XX #" will be displayed.
Press select button 4 to save the package type selected and "PRM# " will be displayed, where # is the column to prime.
Press select button 1 to bypass the prime operation and return to the "XX #" display.
Press select button 4 to prime the indicated column. "PRM" will be displayed while the column is being primed.
"XX #" will be displayed.
Press select button 1 to return to " PACG ".
Press select button 2 to scroll to " RTN ".

"RTN"   -   RETURN TO SALES MODE
Press select button 4 will exit Service Mode and return to Sales Mode.

P SERIES SBC QUICK REFERENCE MENU PROMPTS

Main Menu	Sub-Menu	Sub-Sub-Menu	Main Menu	Sub-Menu	Sub-Sub-Menu
EROR – Error	VEND – Vend Mech Error	CJ# - Column Jam #	TEST con't.	DSP – Dislay	
		CS – Chute Sensor failure		RELY - Relay	CNP# - Compressor
		HS – Home Sense Error			FAN# - Evaporator Fans
	CTRL – Control System Error	DS – Door Switch open			LIT# - Sign Lights
		RAM – Check sum error	PASS – Password		
		ACLO – AC supply low	CASH – Cash Counter	CASH/###/##.##	
		SF – Peripheral scaling factor		CA#/####/##.##	
	SEL – Select Switch Error	SL#	SALE – Sales Counter	SALE/###/##.##	
	STS _ Space to Sales Error	UA# - Column not assigned		SL#/####/##.##	
	CHAR – Changer Error	CC – No communication	PRICE – Price Setting		
		TS – Tube Sensor error	STS – Space to Sales	OPT1 thru 6	
		IC – Inlet chute blocked		CSTS – custom	
		TJ## - Tube jam error	CON	C1 – Multi price	
		CRCH – Changer ROM error		C2 – Optional	
		EE – Excessive escrow attempts		C3 – POS Message	
		NJ – Coin Jam		C4 – Auto View Sales	
		LA – Low coin acceptance		C5 – Door Sw. Reset	
		DIS – Acceptor unplugged		C6 – RESERVED	
		ROUT – Coin mis-routed		C7 – Save credit	
	BUAL – Bill Validator Error	BC – No communication		C8 – Force Vend	
		BFUL – Stacker Full		C9 – Multi vend	
		BILL – Defective motor		C10 – Bill escrow	
		BJ – Bill jam	CCOC – Correct Change Only	Con# - Consumer overpay	
		BRCH – Check Sum Error		CCU – Correct Change value	
		BOPN – Stacker open		ACC – Uncondition Aceptance	
		BS – Sensor error	PREV – Preview Data Password		
	CRDR – Card Reader Error	CRC – No communication	LANG - Language		
		CRXY – Failed card reader	TIME – Time/Date		
	S-D – Display Device Error	SDC – No communication	LIT – Light Conservation		
		SDXX – error code number XX	RFRG – Refrigeration		
	RFRG – Refrigeration Error	SENS – Temp sensor error	BLC1 – Block Selection Bank 1		
		COLD – below lower limit	BLC2 – Block Selection Bank 2		
		HOT – above upper limit	DISC – Discount Setting		
		CNPR – not cooling	OVER – Manual Switch Override		
CPO – Coin Payout			SDEP – Set Column Depth		
TUFL – Tube Fill			RVND – Remote Vend		
TEST - Test	VEND – Motor test		PACG – Package Type Setting	ANGL – Custom angle set	H### - hold angle
	JOG – Jog or Prime column				V### - vend angle
	SL – Select switch				SAVE
	SO – Sold out test	C# 1 - Column sold out	RTN - Return		
		C# 0 – Column not sold out	(AUTO) Auto test		
			(RTN) Return		

Select Button 1: Abort/Cancel (will return to previous menu prompt or to normal door open mode).

Select Button 2: Scroll up (forward in menu).   **Select Button 3**: Scroll down (backward in menu).

Select Button 4: Enter/Save/Clear (allows you to enter a specific prompt, save what you have programmed, or clear the error prompts).

Setting The Vender Type

NORMAL MODE:

Note: If **"COLS"** appears on the display on power up with the door open, you will need to program the vender model number in the controller. To program with **"COLS"** on the display press select button 4. The display will show **"6"** for six columns. Press select button 2 to scroll through available number of columns in the machine. When the displayed number of columns matches the number of columns in the machine, press select button 4 to set the number of columns. **"MODL"** will appear on the display, press select button 4. The display will show the first available model number for the current vender type. Press select button 2 to scroll through the available vender model numbers for this vender. When the vender type you wish to save is showing on the display, press select button 4. The display will scroll **"4 = SET PACKAGE TYPE; 1 = EXIT"**. Press select button 4 and the display will show **"ALL2"** with the 2 flashing. This will allow you to set the package type of the machine if it is different that the default of package type 2. Press select button 2 to scroll through the available package types. Press select button 4 to set the displayed package type, and the display will show **"SAVE"**. Press button 4 to save the package type. **"PRM1"** will appear on the display. Press button 4 to prime column 1 or select button 1 to skip priming column 1. The display will then display **"PRM2"**. Repeat the priming process until all columns have been primed or skipped. The controller will return to normal door open operating mode.

The following are Non-Coca-Cola model numbers:

6 column machines
  DN552-5,
  DN552-6,
  DN552-7,
  DN756-10DP,

7 column machines
  DN504-6,
  DN504-7,
  DN504-8,
  DN532-5,
  DN532-6,
  DN532-7,

8 column machines
  DN756-7,
  DN756-8,

DN756-9,
DN756-10,
DN756-11,
DN756-12,
DN756-13,
DN756HV-12,

10 column machines
  DN720-9, DN760HV-12
  DN720-10, DN770HV-11
  DN760-9, DN770HV-12
  DN760-10, DN770-12
  DN760-11,
  DN760-12,
  DN760-13,
  DN760HV-11,

The following are other model numbers that may appear:

6 column machines	**8 column machines (continued)**
DN552-5,	DN756-9
DN552-6,	DN756-10
DN552-7,	DN756-11, DN756HV-11
DN552-8,	DN756-12, DN756HV-12
7 column machines	DN756-13
DN532-5,	**10 column machines**
DN532-6,	DN760-9
DN532-7,	DN760-10
DN532-8,	DN760-11
8 column machines	DN760-12
DN756-7,	DN760-13
DN756-8,	

Factory Default Setting
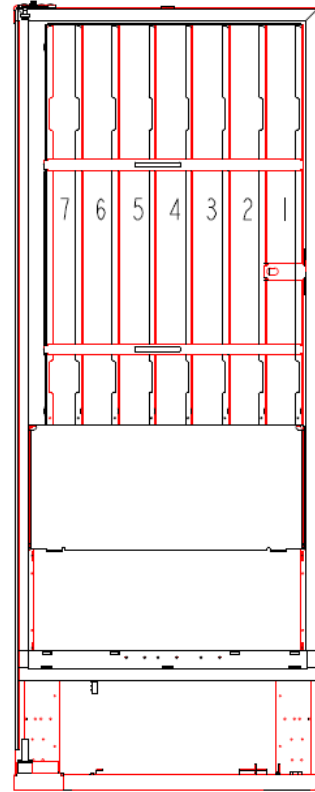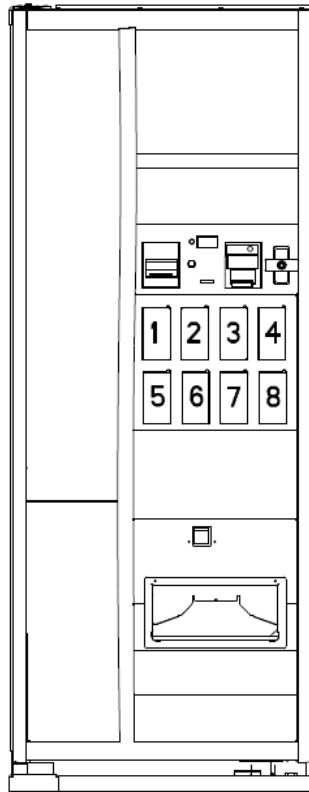
Selection #	Column #
1	1
2	1
3	2
4	3
5	4
6	5
7	6
8	7

	DN504P					
Select #	**opt1**	**opt2**	**opt3**	**opt4**	**opt5**	**opt6**
1	1	1	1	1	1	1
2	1	1	1	1	1	1
3	2	2	2	2	2	2
4	3	3	3	3	3	3
5	4	4	4	4	4	4
6	5	5	5	5	5	5
7	6	6	6	6	6	6
8	7	7	7	7	7	7

The most important facets of proper vender care and maintenance are the electrical power supplied to it, leveling, and cleanliness of the machine and its components.

POWER

The vender must be connected to a dedicated 120VAC, 15 Amp circuit (U.S. and Canada).

CAUTION:
REMOVE POWER TO THE VENDER PRIOR TO CONNECTING / DISCONNECTING ANY ELECTRICAL COMPONENTS FOR TESTING OR REPLACEMENT.

Periodically inspect the power supply cord for damage. If the cord or plug is worn or damaged, it must be replaced with a power supply cord of the same type, size and specification as originally provided with the machine. DO NOT USE THE VENDING MACHINE UNTIL THE WORN OR DAMAGED CORD IS REPLACED.

The Ground Fault Circuit Interrupter (GFCI) must be tested frequently and before each use in accordance with the instructions provided on the GFCI device. IF THE GFCI DOES NOT PASS THE TEST, DO NOT USE THE MACHINE. Unplug the supply cord from the receptacle and call the Dixie-Narco Technical Support Group for assistance at 1-800-688-9090.

CLEANING

DO NOT USE A WATER JET OR NOZZLE TO CLEAN THE VENDER

SIGN FACE

The polycarbonate sign face requires proper cleaning to prolong its service life. Periodically clean the sign as follows:

Rinse the sign with a soft cloth or sponge soaked in warm water. If necessary, use a mild soap to loosen any dirt or grime. DO NOT SCRUB or use a brush or squeegee. Scrubbing may cause damage to signs with a clear ultraviolet resistant coating (prevents yellowing). Repeat the above steps as necessary. To prevent spotting, dry the sign using a soft cloth.

CABINET

Wash the cabinet with a good detergent or soap mixed with warm water. Wax the vender often with a good grade of automobile wax. Any corrosion inside of the vender should be removed with a fine steel wool and the area should be painted with aluminum paint. Repair any scratches on painted surfaces to prevent corrosion.

DRAIN PAN, DRAIN TUBE, AND DRAIN HOSE

To prevent mold and mildew growth, and to avoid personal injury or property damage, the drain pan, drain tube, and drain hose must be properly aligned and routed. Ensure nothing obstructs the drain tube or drain hose and that the hose is not bent, pinched, or twisted in such a way as to prevent the flow of condensate. Periodically inspect the drain pan, drain tube, and drain hose for alignment and the presence of dirt, debris, mold, and mildew. Clean as needed.

THE COMPRESSOR ELECTRICAL CIRCUIT IS ALWAYS LIVE WHEN THE PLUG IS CONNECTED TO AN ELECTRICAL OUTLET

REFRIGERATION CONDENSER

Check the condenser periodically for dirt or lint build-up. Remove build-up with a brush or vacuum, or blow the dirt out of the condenser with compressed air and an approved safety nozzle. Ensure nothing obstructs the air intake at the bottom of the main door. Ensure nothing obstructs the air exhaust at the rear of the cabinet.

COIN ACCEPTOR

- Follow the coin acceptor manufacturer's cleaning instructions.

LUBRICATING THE VENDER

Time	Component	Lubricant Example
Every 6 months (or as needed)	**Main Door** 1. Lock Bolt & Nut Retainer	Mechanics Friend
	2. Hinge Pivot Points	Mechanics Friend
Every Year (or as needed)	**Inner Door** 1. Hinge Pivot Points	Mechanics Friend
	Inner Door 1. Door Gasket	Petroleum Jelly

EPROM REPLACEMENT
Software changes / upgrades are accomplished by changing the EPROM on the Control Board.

Single Board Controller (SBC) Software Update Procedure

This document describes how to update software on the Single Board Controller (SBC). **Note:** All existing software revisions, except software version 804,919,770.01, will automatically update the software revision 804,919,870.01 or higher upon installation. For SBC boards using 804,919,770.01 software menu programming is required to manually update the software.
Important: EPROM's containing software is sensitive to Electrostatic Discharge (ESD). Failure to handle the EPROM carefully could cause damage, which may result in a failed Single Board Controller (SBC).

ALWAYS KEEP THE EPROM IN THE ESD TUBE. GROUND YOURSELF ON THE VENDER CABINET BEFORE REMOVING THE EPROM FROM THE ESD TUBE OR CONTROL BOARD. AN EPROM CAN BE USED TO PROGRAM MANY VENDERS, AS LONG AS CARE IS TAKEN NOT TO DAMMAGE THE EPROMS LEGS.

ALWAYS TURN POWER OFF BEFORE REMOVING OR INSTALLING EPROMS IN THE CONTROL BOARD.

Note: Use the SBC programming manual to program a vender that has a Single Board Controller (SBC) installed.
   I.   EPROM removal
- Power down the Vender. **Ground yourself on the vender cabinet before removing the EPROM from the ESD tube or control board.**
- If the EPROM is present in the SBC, remove the existing EPROM from the SBC.
  - Note: An EPROM does not need to be in the board after the SBC has been programmed. The EPROM can be used to reprogram other boards.
- Verify the pins of the new EPROM are not bent before installing in the EPROM socket.
- Install the new EPROM in the EPROM socket. Ensure the EPROM is oriented correctly with its reference marker (locator) in the same direction as the reference marker (locator) of the EPROM socket. Do not rely on the EPROM label for orientating the EPROM. See Figure 1.

   II.   Automatic Reprogramming (all software revisions **except** 804,919,770.01)
- Turn power on to Vender. When auto-updating, the display will remain blank while the red LED on the board blinks rapidly for 3-4 seconds. Verify the new software version is shown on the display. If the new software version (the software version of the newly installed EPROM) displays, the SBC software has been successfully updated. If not, verify the EPROM is seated properly, with the reference marker oriented correctly and follow instructions for manual update if updating from 804,919,770.01. If problems still exist, contact the Dixie-Narco Technical Service Department.
  Note: To remove the EPROM after programming is complete turn power off, **ground yourself on the vender cabinet before removing the EPROM**, remove the EPROM, turn power on, test vender for proper operation.
   III.   Manual Reprogramming (all 804,919,770.01 or if an EPROM does not automatically reprogram the SBC)
- At power up, the current software version will be displayed. To manually program the control board with the new software, press the blue service switch on the SBC to enter the service menu. Advance to the "Auto Test" menu by holding buttons 1& 2 simultaneously. Enter Auto Test by pressing button 1, and advance to the "Reprogramming Microprocessor" submenu by holding buttons 1& 2 simultaneously.
- At the "Reprogramming Microprocessor" prompt, press button 1. "THIS OPERATION REPROGRAMS VENDOR" shows on the display. Press button 1 at this prompt. Next display will show "BUTTON 2 = REPROGRAM, BUTTON 3 = EXIT".
- Press button 2 to reprogram vender with the new software. "Reprogramming Vendor…" displays while the red LED on the board blinks rapidly for 3-4 seconds. Verify the new software version, and previous settings return to the display. If the new software version (the software version of the newly installed EPROM) shows on the display, the SBC software has been successfully updated.

Note: To remove the EPROM after programming is complete, remove power to the vender, **ground yourself on the vender cabinet before removing the EPROM**, remove the EPROM, while still grounded install a label on the microprocessor showing the revision of software that is installed in the SBC, power the vender back on and test for proper operation.

770.01 Label on microprocessor to show what revision of software is in SBC if EPROM is removed after reprogramming.

770.81

Locators

Locators
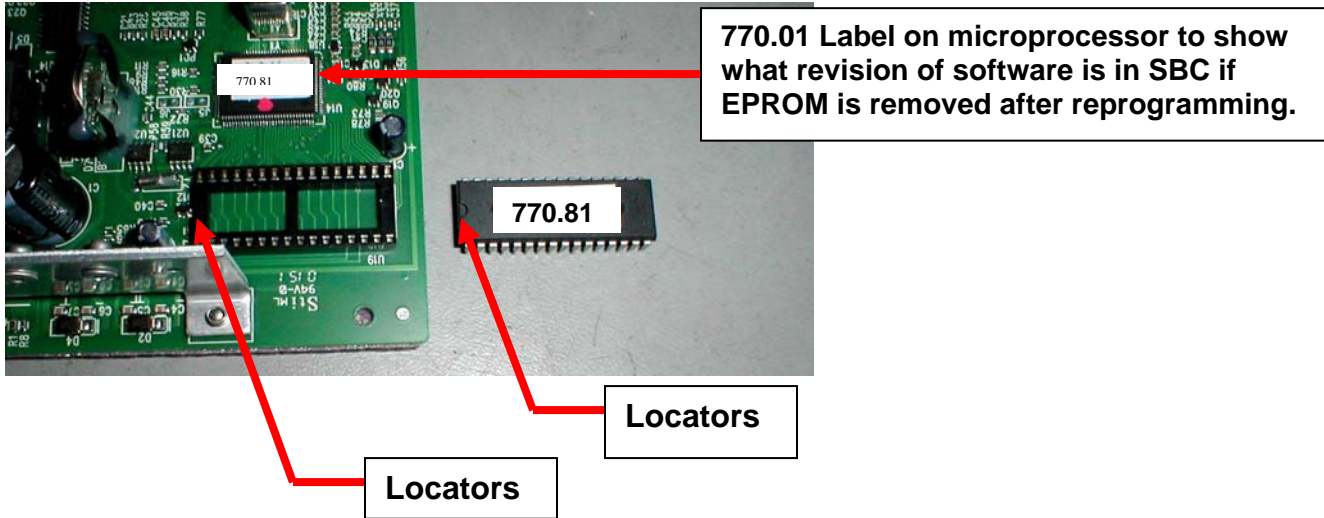
Figure 1

Figure 1 – EPROM REPLACEMENT
(SAMPLE BOARD SHOWN)
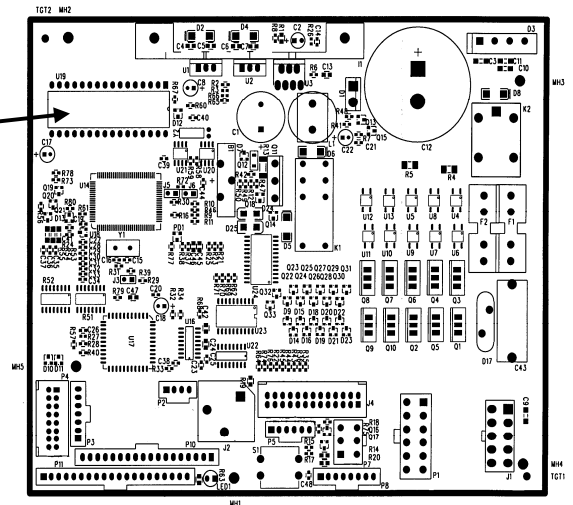
ELECTRICAL

Transformer	Provides 24 volt and 12 volt power to the Machine Controller
Fuse	1.0 Amp Slo Blo in the Power Distribution Box - Control Board Power, (includes display and MDB Peripherals)
Relay	Potter & Brumfield T91P5D52-24 240 VAC / 20 A-NO / 10A-NC
Choke	Schaffner FN2080-10/06 110/250VAC/50-60HZ 10A
Green Power Switch	Interrupts hot side of incoming power.

REFRIGERATION

220 VAC	
Compressor	NEK6212Z 220/50 1/3 EmBraco Unit uses 7.5 oz. of 134A Refrigerant
Start Relay	110 VAC, 1.351.605
Start Capacitor	110 VAC 378-454 mfd / 110V
Thermal Overload	110 VAC MRT 22AFZ-5590
Condenser Fan	9W Motor 230V/50/60HZ EmBraco PN: 13355043 Blade – 230mm Aluminum
Evaporator Fan	Motor 0.38A 220/240V 50Hz 6" 4-Blade Plastic

SBC
CONTROLBOARD
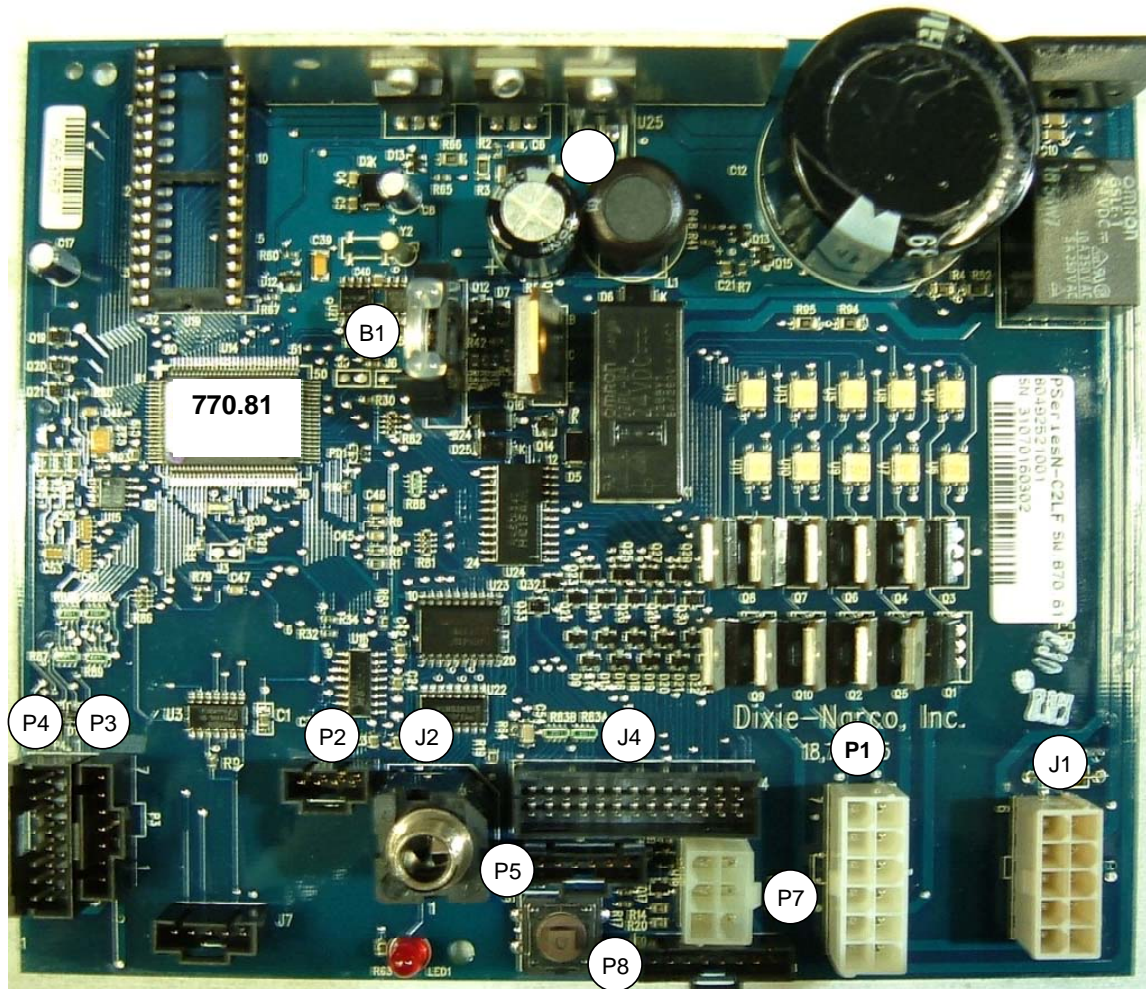
P1	Motor
P2	Secondary DEX
P3	Display
P4	Select Switches
P5	Temp Sensor
P7	MDB
P8	Energy Management
J1	AC Power
J2	DEX
J4	Home Switch
J7	Optional
B1	Battery

TROUBLESHOOTING FLOWCHARTS

The following charts are intended to isolate and correct most problems you might encounter.

ALL COINS ARE REJECTED

```
┌─────────────────────┐
│ All coins are        │
│ rejected.            │
└─────────────────────┘
          │
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Main Power          │───────▶╱  Apply power     ╱
│ Disconnected.       │       ╱─────────────────╱
└─────────────────────┘
          │
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Blown Fuse          │───────▶╱  Check fuses and ╱
│                     │       ╱   replace if      ╱
└─────────────────────┘      ╱    necessary.     ╱
          │
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Check Prices        │───────▶╱  Reset Price     ╱
└─────────────────────┘       ╱─────────────────╱
          │
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Loose connection.   │───────▶╱  Check cable at  ╱
│                     │       ╱   coin mech and   ╱
└─────────────────────┘      ╱    controller board.╱
          │
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Jammed coin         │───────▶╱  Clear coins.    ╱
│ mechanism.          │       ╱─────────────────╱
└─────────────────────┘
          │
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Weak springs on     │───────▶╱  Replace spring. ╱
│ changer gate.       │       ╱─────────────────╱
└─────────────────────┘
          │
          ▼
┌─────────────────────┐   ╱──────────────╱      ╱──────────────╱
│ Acceptor gate       │──▶╱ Clean and reset╱───▶╱ Check reject  ╱
│ partially open.     │  ╱  acceptor gate. ╱    ╱ button / lever for╱
└─────────────────────┘ ╱───────────────╱     ╱  proper        ╱
          │                                  ╱   adjustment.   ╱
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Dirty / faulty coin │───────▶╱  Clean / Replace.╱
│ sensor.             │       ╱─────────────────╱
└─────────────────────┘
          │
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Incompatible coin   │───────▶╱  Replace with    ╱
│ mechanism.          │       ╱   approved coin   ╱
└─────────────────────┘      ╱    mechanism.     ╱
          │
          ▼
┌─────────────────────┐   ╱──────────────╱      ╱──────────────╱
│ Defective coin      │──▶╱ Check mech in ╱────▶╱ Replace with  ╱
│ mechanism.          │  ╱  diagnostics   ╱    ╱ known good coin╱
└─────────────────────┘ ╱   "CM".        ╱    ╱  mechanism.    ╱
          │
          ▼
┌─────────────────────┐        ╱─────────────────╱
│ Defective           │───────▶╱  Replace.        ╱
│ Control Board.      │       ╱─────────────────╱
└─────────────────────┘
```

ALL BILLS ARE REJECTED

```
┌─────────────────────┐
│ All bills are rejected. │
└──────────┬──────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│   Main Power        │───────▶╱   Apply power    ╱
│   Disconnected.     │       ╱─────────────────╱
└──────────┬──────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│   Blown Fuse        │───────▶╱ Check fuses and  ╱
│                     │       ╱  replace if       ╱
└──────────┬──────────┘      ╱   necessary.      ╱
           │
           ▼
┌─────────────────────┐        ╱──────────────────────╱
│  Loose connection.  │───────▶╱ Check cable at bill    ╱
│                     │       ╱ validator, controller board, ╱
└──────────┬──────────┘      ╱ and cable connection to ╱
           │                ╱      coin mech.         ╱
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Coin mechanism low on │─────▶╱  Fill coin tubes. ╱
│ coins.              │       ╱─────────────────╱
└──────────┬──────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Bill path obstructed / dirty. │─▶╱  Clear / clean   ╱
│                     │       ╱    path.          ╱
└──────────┬──────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Wrong option switch │───────▶╱     Reset.        ╱
│ settings.           │       ╱─────────────────╱
└──────────┬──────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Incompatible bill validator. │─▶╱    Replace.     ╱
│                     │       ╱─────────────────╱
└──────────┬──────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────╱        ╱─────────────────╱
│ Defective bill validator. │─▶╱ Check in     ╱──────▶╱    Replace.      ╱
│                     │       ╱ diagnostics  ╱       ╱─────────────────╱
└──────────┬──────────┘      ╱   "NA".      ╱
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Defective control board. │──▶╱    Replace.      ╱
│                     │       ╱─────────────────╱
└─────────────────────┘
```

INCORRECT CHANGE DISPENSED

```
┌─────────────────┐
│ Incorrect change │
│   dispensed.     │
└─────────────────┘
         │
         ▼
┌─────────────────┐         ╱─────────────────╱
│  Vend prices set │ ──────▶ ╱  Check price and ╱
│   incorrectly.   │        ╱     reset if      ╱
└─────────────────┘        ╱    necessary.     ╱
         │                 ╱─────────────────╱
         ▼
┌─────────────────┐         ╱─────────────────╱
│  Coins not laying │ ─────▶ ╱   Check coin     ╱
│   flat in tubes.  │        ╱ tubes; clear and ╱
└─────────────────┘        ╱   reload coins.   ╱
         │                 ╱─────────────────╱
         ▼
┌─────────────────┐         ╱─────────────────╱
│  Defective coin  │ ──────▶ ╱     Replace.     ╱
│   mechanism.     │        ╱                  ╱
└─────────────────┘        ╱─────────────────╱
         │
         ▼
┌─────────────────┐         ╱─────────────────╱
│ Defective control │ ─────▶ ╱     Replace.     ╱
│     board.       │        ╱                  ╱
└─────────────────┘        ╱─────────────────╱
```

SELECTION WILL NOT VEND

```
┌─────────────────────┐
│ Selection will not  │
│       vend.         │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Vend price set      │───────▶│ Check price and │
│ incorrectly.        │        │ reset if        │
└─────────────────────┘        │ necessary.      ╱
           │                   ╱─────────────────╱
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Insufficient credit.│───────▶│ Check price,    │
│                     │        │ ensure credit is│
└─────────────────────┘        │ equal to or     │
           │                   │ greater.        ╱
           ▼                   ╱─────────────────╱
┌─────────────────────┐        ╱────────────────────────────╱
│ No product in column│───────▶│ Fill column with product.  │
│                     │        │ Prime Column.              ╱
└─────────────────────┘        ╱────────────────────────────╱
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Product and shimming│───────▶│ Check shimming  │
│ mis-matched.        │        │ setup.          ╱
└─────────────────────┘        ╱─────────────────╱
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Blown motor power   │───────▶│ Replace fuse    │
│ fuse (F2)           │        │ (6.0 Amp Fast Blo)╱
└─────────────────────┘        ╱─────────────────╱
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Check select switch │───────▶│ Check select    │
│ in diagnostics.     │        │ switch in       │
│ Select switch not   │        │ diagnostics.    │
│ responding.         │        │ Replace if      │
└─────────────────────┘        │ necessary.      ╱
           │                   ╱─────────────────╱
           ▼
┌─────────────────────┐        ╱────────────────────────────╱
│ Loose connections.  │───────▶│ Check harness connection at│
│                     │        │ control board, door/cabinet│
└─────────────────────┘        │ interface, and vend motor. ╱
           │                   ╱────────────────────────────╱
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Defective Vend Motor│───────▶│ Use "MT" test to check │
│                     │        │ vend motor.     │
└─────────────────────┘        │ Replace if necessary.╱
           │                   ╱─────────────────╱
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Defective harness.  │───────▶│ Replace harness.╱
└─────────────────────┘        ╱─────────────────╱
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Defective control   │───────▶│ Replace.        ╱
│ board.              │        ╱─────────────────╱
└─────────────────────┘
```

ICE / FROST ON EVAPORATOR

Ice / frost on evaporator.

Is refrigeration unit cycling?

See: "Compressor Runs Continuously" Below

Air leak.

Inspect / Repair:
1. Gasket seal on inner door.
2. Delivery port door seal.
3. Vend motor cover.

COMPRESSOR RUNS CONTINUOUSLY

Evaporator fan not working.

Inspect / Repair:
1. Harnessing
2. Fan Motor

Air leak.

Inspect / Repair:
1. Gasket seal on inner door.
2. Delivery port door seal.
3. Vend motor cover.

Defective temp sensor or temp control.

Replace.

Control Board.

Replace.

COMPRESSOR WILL NOT START

Compressor will not start.

↓

Power to the
Refrigeration system. →

Electronic problem.
1. Check relay.
2. Harnessing.
3. Temperature Sensor or control.
4. Control Board.

↓

Compressor is
unplugged. →

Plug compressor in outlet on
face of main wiring harness
distribution block.

↓

Low voltage. →

Check power
source.

↓

Defective refrigeration
component (capacitor,
overload, relay). →

Replace.

↓

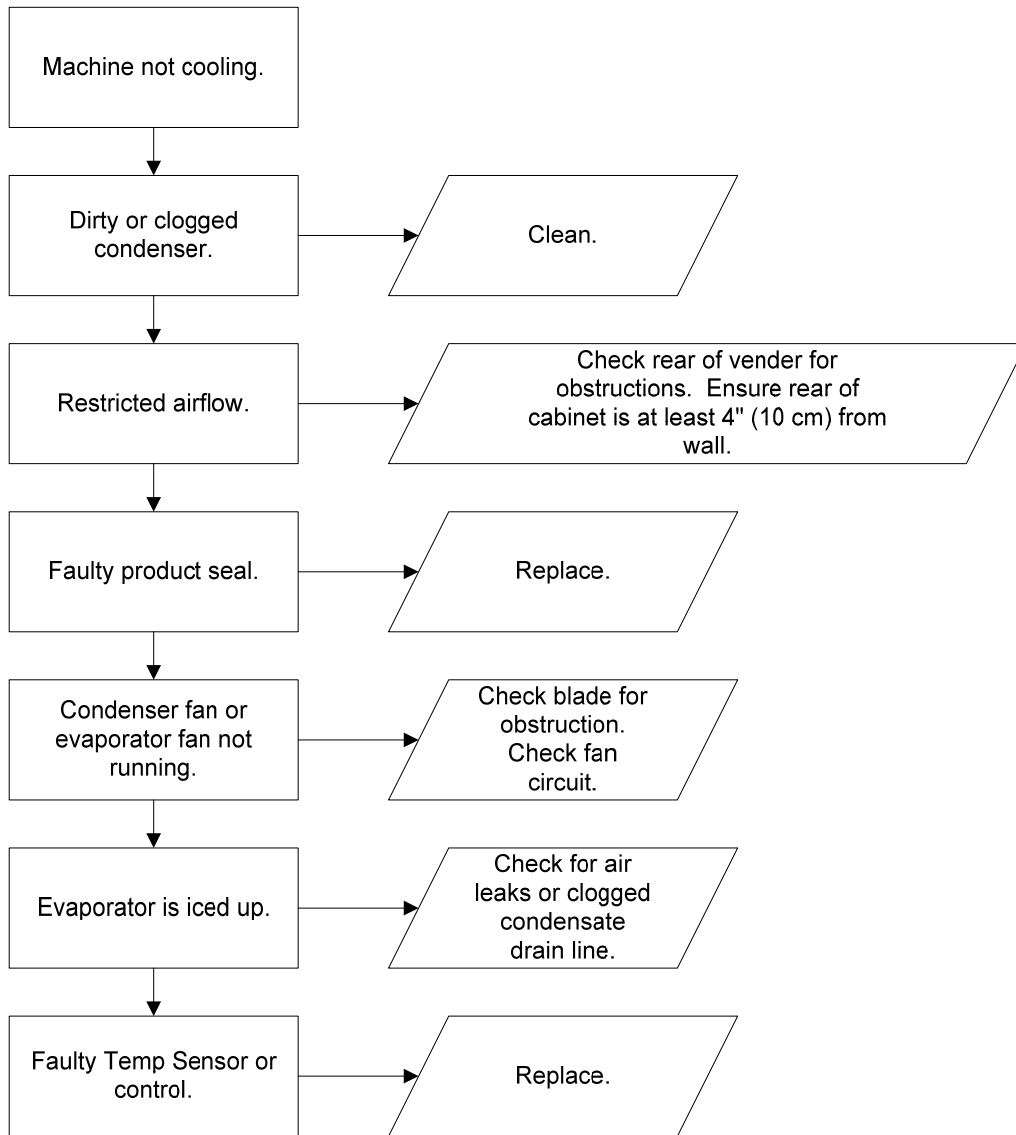Defective compressor. →

Replace.

**Troubleshooting Tip: Use a short 15 Amp extension cord and
plug the compressor directly into the wall outlet.
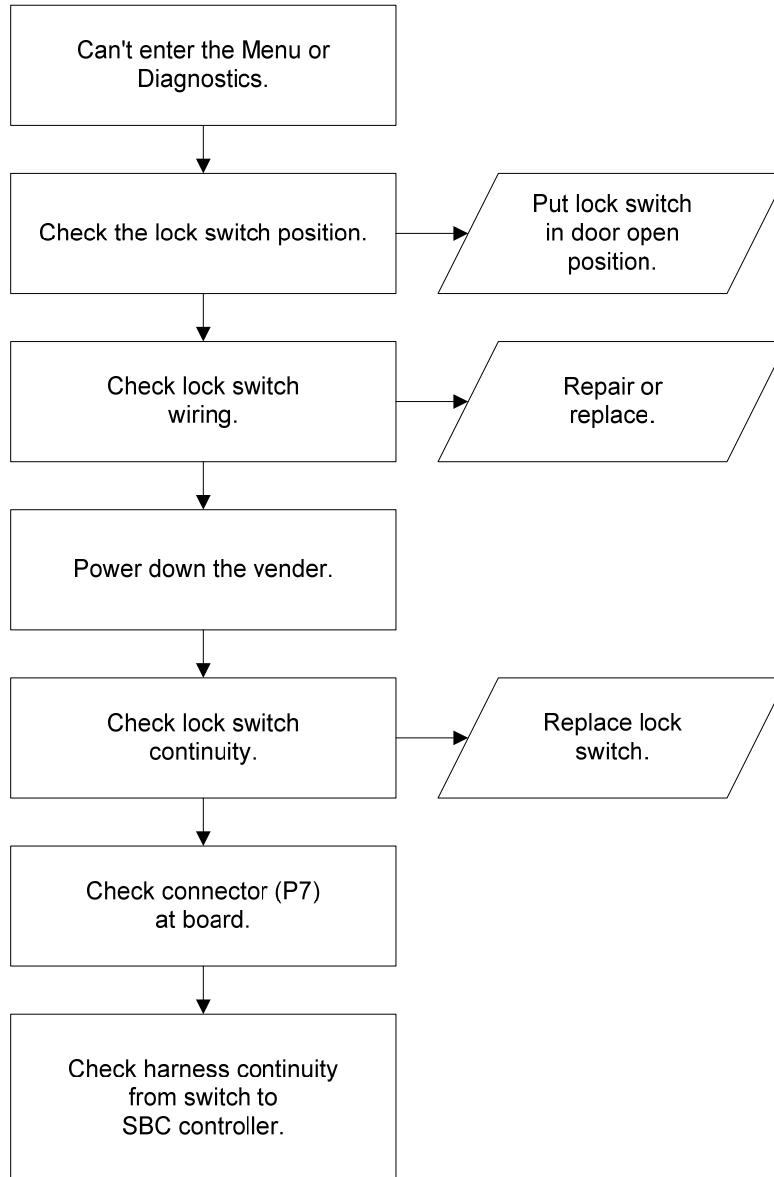This will bypass the Electronic Controls.
Note: For Testing Purposes Only.**
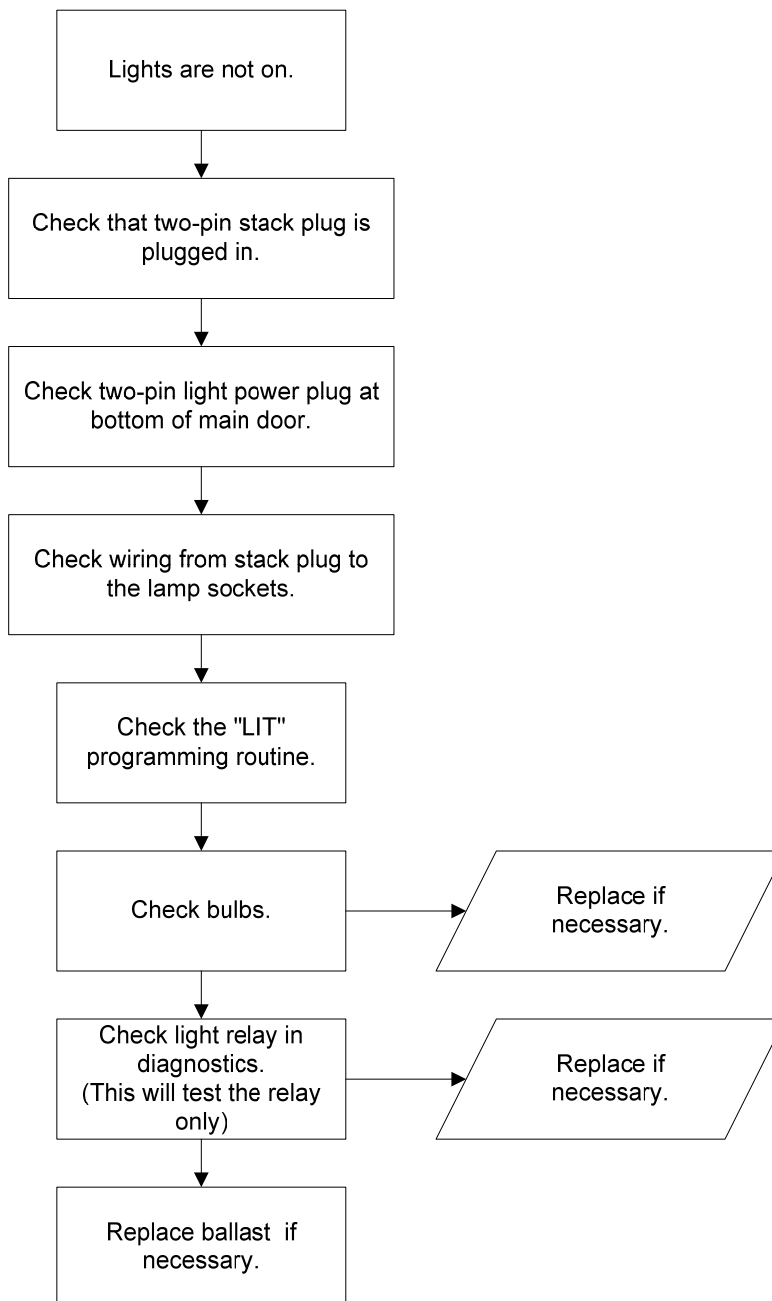
MACHINE NOT COOLING

```
┌─────────────────────┐
│                     │
│ Machine not cooling.│
│                     │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│                     │       ╱                 ╱
│  Dirty or clogged   │──────▶      Clean.
│    condenser.       │     ╱                 ╱
│                     │    ╱─────────────────╱
└─────────────────────┘
           │
           ▼
┌─────────────────────┐        ╱───────────────────────────────╱
│                     │       ╱   Check rear of vender for      ╱
│ Restricted airflow. │──────▶   obstructions.  Ensure rear of
│                     │     ╱   cabinet is at least 4" (10 cm) from
│                     │    ╱              wall.                 ╱
└─────────────────────┘   ╱───────────────────────────────────╱
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│                     │       ╱                 ╱
│ Faulty product seal.│──────▶     Replace.
│                     │     ╱                 ╱
│                     │    ╱─────────────────╱
└─────────────────────┘
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│  Condenser fan or   │       ╱  Check blade for ╱
│ evaporator fan not  │──────▶    obstruction.
│     running.        │     ╱     Check fan     ╱
│                     │    ╱       circuit.    ╱
└─────────────────────┘   ╱─────────────────╱
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│                     │       ╱   Check for air  ╱
│ Evaporator is iced up.│────▶  leaks or clogged
│                     │     ╱    condensate     ╱
│                     │    ╱     drain line.   ╱
└─────────────────────┘   ╱─────────────────╱
           │
           ▼
┌─────────────────────┐        ╱─────────────────╱
│ Faulty Temp Sensor or│      ╱                 ╱
│     control.        │──────▶     Replace.
│                     │     ╱                 ╱
│                     │    ╱─────────────────╱
└─────────────────────┘
```

CAN'T ENTER THE MENU OR DIAGNOSTICS

⚠ **Note:** **Prior to checking wires or connections, ensure power has been removed from vender.**

```
┌─────────────────────────┐
│   Can't enter the Menu or │
│        Diagnostics.      │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐        ╱─────────────────╱
│ Check the lock switch    │───────▶  Put lock switch  ╱
│       position.          │       ╱  in door open     ╱
└─────────────────────────┘      ╱     position.      ╱
            │                    ╱─────────────────╱
            ▼
┌─────────────────────────┐        ╱─────────────────╱
│   Check lock switch      │───────▶    Repair or      ╱
│        wiring.           │       ╱    replace.       ╱
└─────────────────────────┘      ╱─────────────────╱
            │
            ▼
┌─────────────────────────┐
│  Power down the vender.  │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐        ╱─────────────────╱
│   Check lock switch      │───────▶  Replace lock    ╱
│       continuity.        │       ╱    switch.        ╱
└─────────────────────────┘      ╱─────────────────╱
            │
            ▼
┌─────────────────────────┐
│  Check connector (P7)    │
│        at board.         │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│  Check harness continuity │
│     from switch to       │
│     SBC controller.      │
└─────────────────────────┘
```
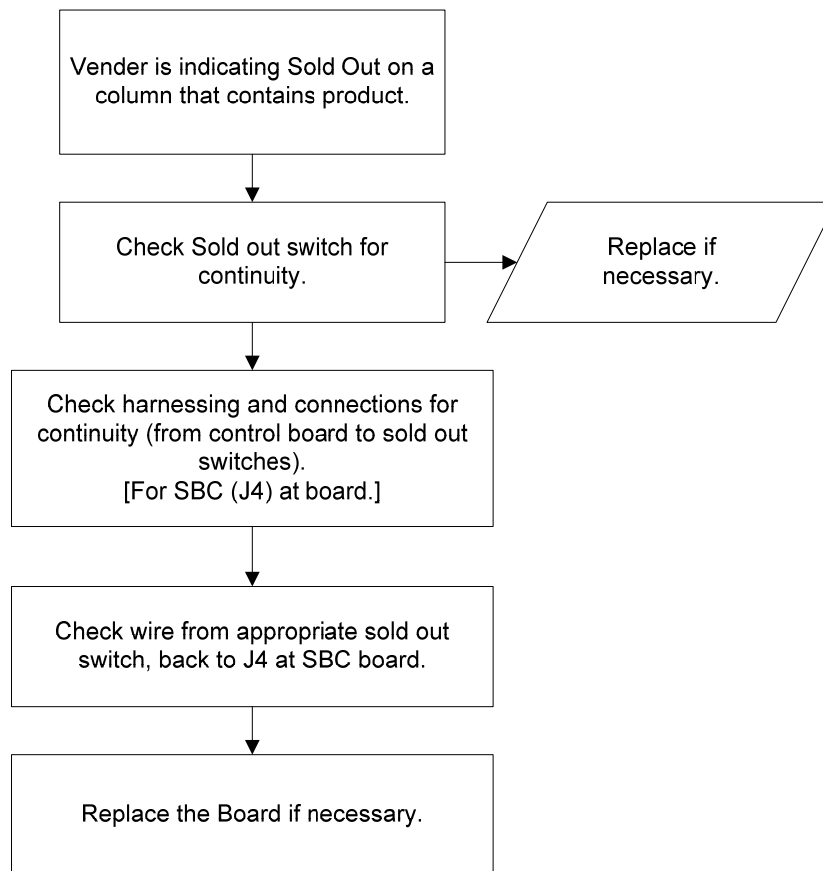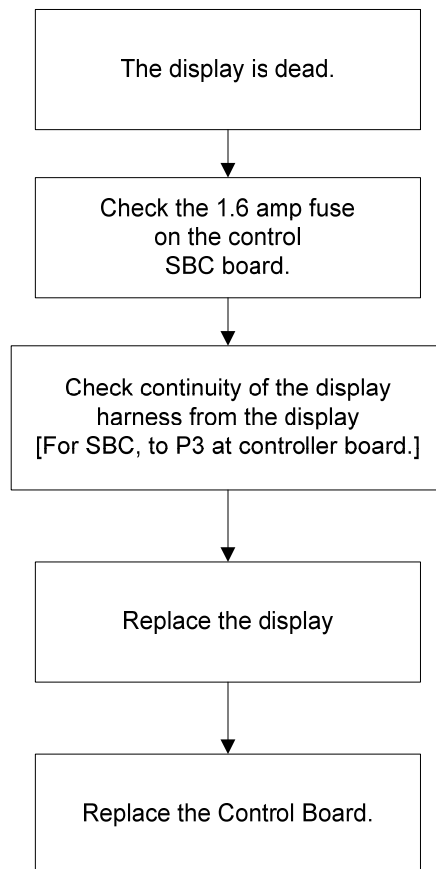
LIGHTS ARE NOT ON

```
┌─────────────────────────┐
│    Lights are not on.   │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│ Check that two-pin stack│
│ plug is plugged in.     │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│ Check two-pin light     │
│ power plug at bottom of │
│ main door.              │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│ Check wiring from stack │
│ plug to the lamp        │
│ sockets.                │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│ Check the "LIT"         │
│ programming routine.    │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐         ╱──────────────╱
│     Check bulbs.        │────────▶  Replace if
└─────────────────────────┘         ╱ necessary.  ╱
             │                      ╱──────────────╱
             ▼
┌─────────────────────────┐         ╱──────────────╱
│ Check light relay in    │────────▶  Replace if
│ diagnostics.            │         ╱ necessary.  ╱
│ (This will test the     │         ╱──────────────╱
│ relay only)             │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│ Replace ballast  if     │
│ necessary.              │
└─────────────────────────┘
```

ONE OR MORE MOTORS RUN WHEN MAIN DOOR IS CLOSED
(Display Scrolls "PRIM")

One or more motors run when the main door is closed.
(Display scrolls "PRIM")

↓

Check cam / sold-out connector at control board SBC (J4).

↓

Check the connectors at the bottom of the main door.

↓

Check the vend motor switch(s) for continuity. → If more than one motor runs, check the **Common** wire of the last vend motor switch to the left of the problem. → If only one motor runs, then check the **NC** of that vend motor switch.

↓

Check the continuity of the wire from the vend switch back machine board connector SBC (J4). → Replace the machine board.

SOLD OUT

Vender is indicating Sold Out on a column that contains product.

Check Sold out switch for continuity.

Replace if necessary.

Check harnessing and connections for continuity (from control board to sold out switches).
[For SBC (J4) at board.]

Check wire from appropriate sold out switch, back to J4 at SBC board.

Replace the Board if necessary.

THE DISPLAY IS DEAD

```
┌─────────────────────────────┐
│                             │
│     The display is dead.    │
│                             │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│     Check the 1.6 amp fuse  │
│        on the control       │
│          SBC board.         │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│   Check continuity of the display│
│      harness from the display    │
│  [For SBC, to P3 at controller board.]│
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│                             │
│      Replace the display    │
│                             │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│                             │
│    Replace the Control Board.│
│                             │
└─────────────────────────────┘
```

CAN'T READ THE DISPLAY

```
┌─────────────────────────────────────┐
│         Can't read the display.     │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│  Reset the display by unplugging    │
│  the vender and plugging it back in.│
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│     Check display in Diagnostics.   │
│     This will check that all dots   │
│            are working.             │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│      The display will illuminate    │
│        in a scrolling manner.       │
│   This also checks the red (sold out)│
│    and green (vend ready) lamps.    │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│       Replace display if all        │
│         dots do not light.          │
└─────────────────────────────────────┘
```

LMV 8 Select / 6 Column

Refrigeration Circuit Diagrams

Symbol	Description
	Current Start Relay with Capacitor Connections
	Start Capacitor
	Overload Protector
M	Fan
	Single Phase Motor
⊕	Earth Connection
	Single Phase Supply
Ⓒ	Common
Ⓡ	Run
Ⓢ	Start
——	Factory Made Connections
- - - -	Connections to be made

New Refrigeration Circuit effective run# 6917

Line

Compressor
Overload

Pressure
Switch

Compressor

Condenser Fan

Capacitor

Start
Relay

Neutral
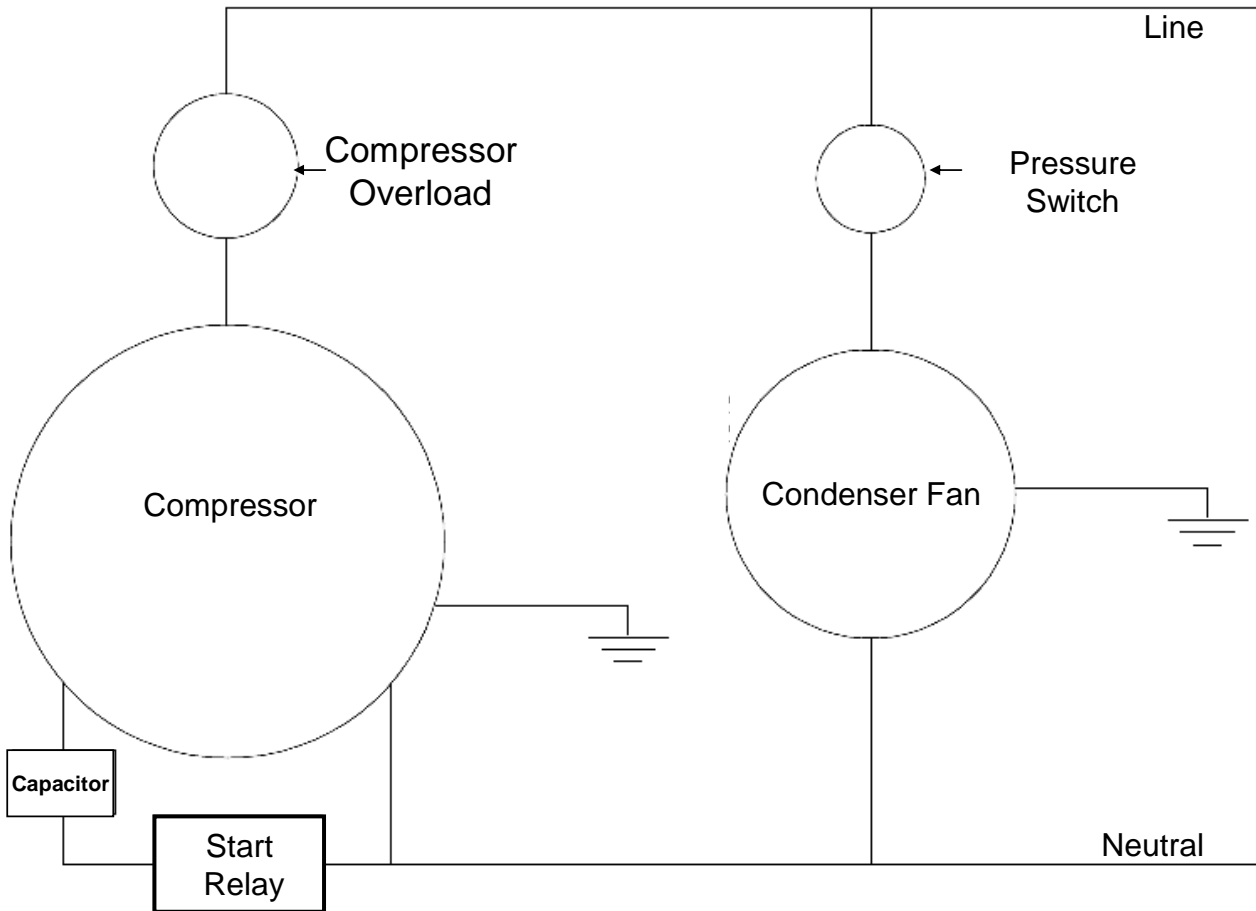
PARTS LIST
LMV - Italy P Series
504P

MAIN DOOR EXTERIOR

MAIN DOOR EXTERIOR		
ITEM	**PART DESCRIPTION**	**DN504P**
1	Main Door Assembly P-Series - Specify Graphics	642,055,60x.x3
2	Door Weld Assembly (Specify Color)	642,053,50x.x3
3	Trim, Side (2)	642,050,53x.x3
4	Horizontal Trim	
4a	Trim,R, Black 25.19"	642,050,55x.x3
4b	Trim,R, Black 15.19"	642,050,56x.x3
5	Trim,R, Vertical Center 65.940	642,050,54x.x3
6	Plate, Filler Bill Validator (Specify Color)	624,050,93x.x3
7	Graphics	
7a	Sign	805,036,21x.x1
7b	Decal, Transaction Panel	803,887,36x.x1
7c	Decal, Selection Panel	803,877,16x.x1
7d	Card, AD Italy '08	805,044,35x.x1
7e	Window, AD Black Border	803,870,22x.x1
8	Kit, Door Hinge	642,053,40x.x4
9	Spacer, Hinge	169,000,15x.x3
10	T-Handle Assembly	801,525,64x.x1
11	Shim, T-Handle	805,701,24x.x1
12	Port Trim (Trimspacer)	642,050,00x.x3
13	Closure Strip	609,050,14x.x3
14	Wide Delivery Port	801,810,02x.x1
15	Mounting Plate, Coin Cup	801,810,14x.x1
16	Rain Guard	169,050,34x.x3
17	Assembly, Transaction Panel	642,050,70x.x3
18	Lens, Red	801,810,67x.x1
19	Push Button Coin Return	801,807,25x.x1
20	Bracket, Door Stop	592,051,19x.x3
21	Vandal Panel (Specify Color)	165,150,33x.x3
22	Stiffener, Door Rod	624,050,94x.x3
23	Stop, Door Black	631,051,26x.x3
24	Assembly, Selection Panel -8	642,051,70x.x3
25	Rod,R, Door Narrow	801,402,86x.x1
26	Cash Box	642,054,10x.x3
27	Shelf, Cash Box	642,054,00x.x3
28	Bracket, Light Mount (2)	624,051,38x.x3
29	Bulkead, Top	642,050,36x.x3
MAIN DOOR EXTERIOR - MISCELLANEOUS		
ITEM	**PART DESCRIPTION**	**DN504P**
A1	Lockcover Kit	624,010,00x.x4
A2	Bolt,R, T 8-32x3/4	800,400,61x.x1
A3	Nut, Keps 8-32	800,801,54x.x1
A4	Bolt, Carriage 1/4-20x1/2	800,202,45x.x1
A5	Hole Plug, Black 5/16"	900,902,15x.x1
A6	E-Ring, #31-30	901,503,07x.x1
A7	Rivet, Pop Muti-Grip Blind	901,100,53x.x1
A8	Bolt, Carriage 1/4-20x1	800,202,42x.x1
A9	Nut, KEPS 1/4-20	800,801,57x.x1
A10	Label, Money Removed Daily (Not Shown)	903,805,70x.x1
A11	Label, Warning Do Not Tilt (Not Shown)	803,868,29x.x1

Part number and description subject to change with out notice.
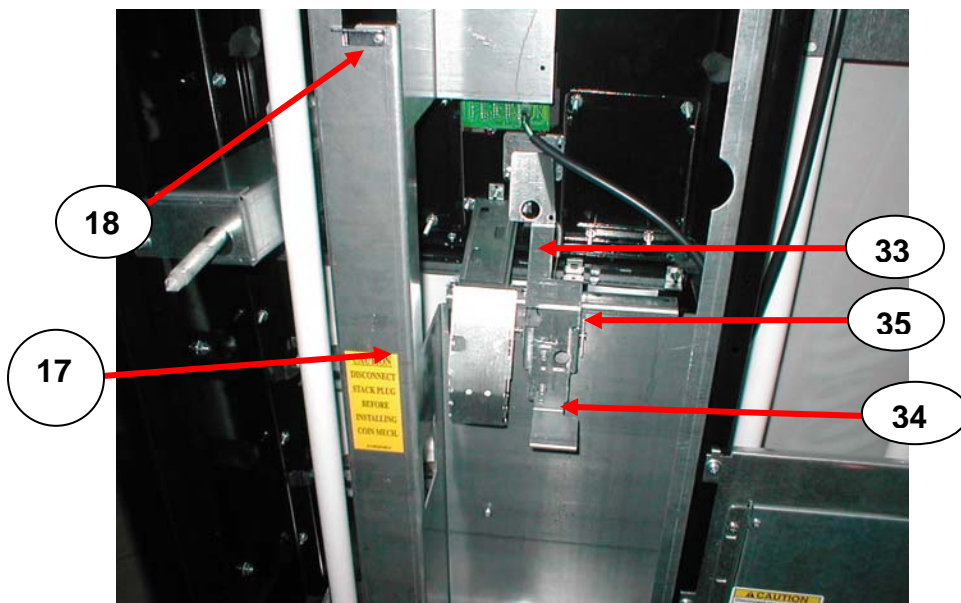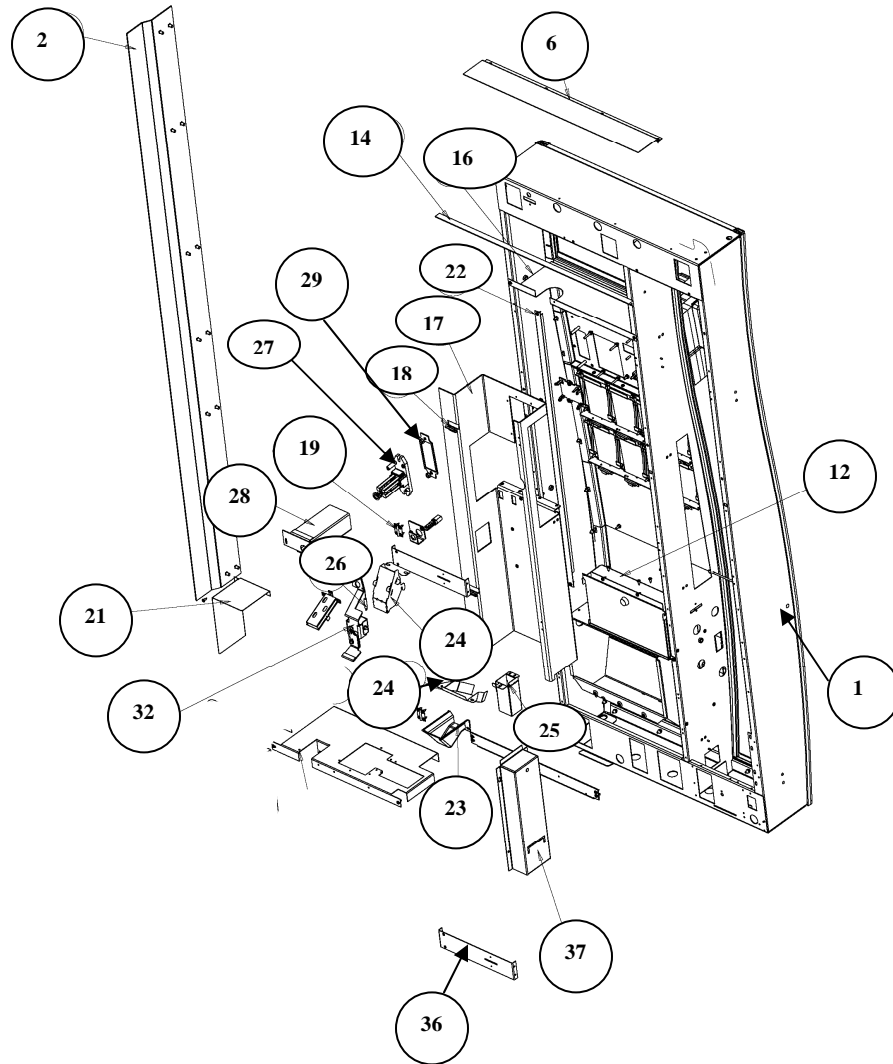
# MAIN DOOR INTERIOR

**Part number and description subject to change with out notice.**

MAIN DOOR INTERIOR		
ITEM	PART DESCRIPTION	DN504P
1	Weld Assembly, Main Door	642,053,50x.x3
2	Vandal Panel (Specify Color)	165,150,33x.x3
3	Kit, Door Hinge	642,053,40x.x4
4	Spacer, Hinge	169,000,15x.x3
5	Closure Strip	609,050,14x.x3
6	Rain Guard	169,050,34x.x3
7	Wide Delivery Port	801,810,02x.x1
8	Port Support	624,050,03x.x3
9	Delivery Port Spacer	594,050,96x.x3
10	Stiffener, Door Rod	624,050,94x.x3
11	Rod,R, Door Narrow 8-32 CWD B	801,402,86x.x1
12	Cash Box	642,054,10x.x3
13	Shelf, Cash Box	642,054,00x.x3
14	L Profile Gasket 35"	803,601,11x.x1
15	Assembly, Transaction Panel and Stud	642,050,70x.x3
16	Top Bulkhead	642,050,36x.x3
17	Vault, Coin Mech	642,050,38x.x3
18	Latch,R, Coin Mech Vault	801,304,53x.x1
19	Hinge,R, Coin Mech Vault	901,502,41x.x1
20	Bracket, SBC Mounting Narrow	642,050,09x.x3
21	Cover, Validator	642,050,01x.x3
22	Brace, 90 Degree Angle	642,050,39x.x3
23	Chute, Change Cup	642,050,42x.x3
24	Assembly, Coin Chute	642,053,80x.x3
25	Assembly, Chute Cash Box	642,053,90x.x3
26	Spring,R,Extension Coin Return	901,700,63x.x1
27	Assembly,R, T-Handle	801,525,64x.x1
28	Cover, T-Handle	642,050,41x.x3
29	Shim,R, T-Handle	805,701,24x.x1
30	Cover, Wire Plug	640,050,05x.x3
31	Mounting Plate, Coin Cup	801,810,14x.x1
32	Assembly, Coin Return	642,054,20x.x3
33	Rocker, Coin Return	642,050,66x.x3
34	Extension, Coin Return	642,050,67x.x3
35	Bracket, Coin Return	624,051,26x.x3
36	Bracket, Light Mount (2)	624,051,38x.x3
37	Enclosure, Ballast Export	631,051,01x.x3
38	Door Stop, Black	631,051,26x.x2
39	Bracket, Mounting Door Stop	592,051,19x.x3

Part number and description subject to change with out notice.

| MAIN DOOR INTERIOR - MISCELLANEOUS		
ITEM	**PART DESCRIPTION**	**DN504P**
A1	Tape,R, PSA Closed Cell 1-Roll 1700'	903,600,66x.x1
A2	Bolt,R, Carriage 1/4-20X1-1/4	800,202,43x.x1
A3	Bolt,R, Carriage 1/4-20X1/2	800,202,45x.x1
A4	Screw,R, Machine Truss 10-32X1/2	800,202,52x.x1
A5	Screw,R, Phillip Pan 6-20x3/8	800,304,77x.x1
A6	Screw,R, Phillip Pan 8-18x1/2	800,304,18x.x1
A7	Screw,R, Phillip Pan SEM 8-18x½	800,304,23x.x1
A8	Screw,R,Phillip Pan Swage 8-32x¼	800,304,34x.x1
A9	Screw,R,SEM Type F ¼-20x5/8HX	800,304,36x.x1
A10	Bolt,R,T 8-32x3/4	800,400,61x.x1
A11	Washer,R, Door Hinge	800,701,73x.x1
A12	Nut,R, KEPS 8-32	800,801,54x.x1
A13	Nut,R, Elastic Stop 8-32	800,801,55x.x1
A14	Nut,R,KEPS #10-32	800,801,56x.x1
A15	Nut,R, KEPS 1/4-20	800,801,57x.x1
A16	Rivet,R, 1/8 Steel Zinc	801,100,81x.x1
A17	Spring,R,Extension Coin Return	901,700,63x.x1
A18	Tie,R, Wire 4"	901,901,00x.x1
A19	Tie,R, Cable 14"	901,902,44x.x1
A20	Bushing,R, 5/8" Split Nylon	901,902,98x.x1
A21	Sealer,R,Black Permagum	803,600,72x.x1

Part number and description subject to change with out notice.

SELECT PANEL		
ITEM	**PART DESCRIPTION**	**DN504P**
1	Assembly, Select Panel -8	642,051,70x.x3
2	Weld Assembly Select Panel - Not Shown	642,051,40x.x3
3	Switch,R, Select	804,100,74x.x1
4	Insulator, Switch	801,812,17x.x1
5	Retainer, Selection Button	624,050,12x.x3
6	Select Button (8)	801,810,62x.x1
7	Stop,R, Selection Button (2)	805,700,58x.x1
8	Screw,R, 4-24x3/4 Type B Phillip Pan (16)	800,304,50x.x1
9	Nut,R, KEPS 8-32 (12)	800,801,54x.x1
Part number and description subject to change with out notice.		
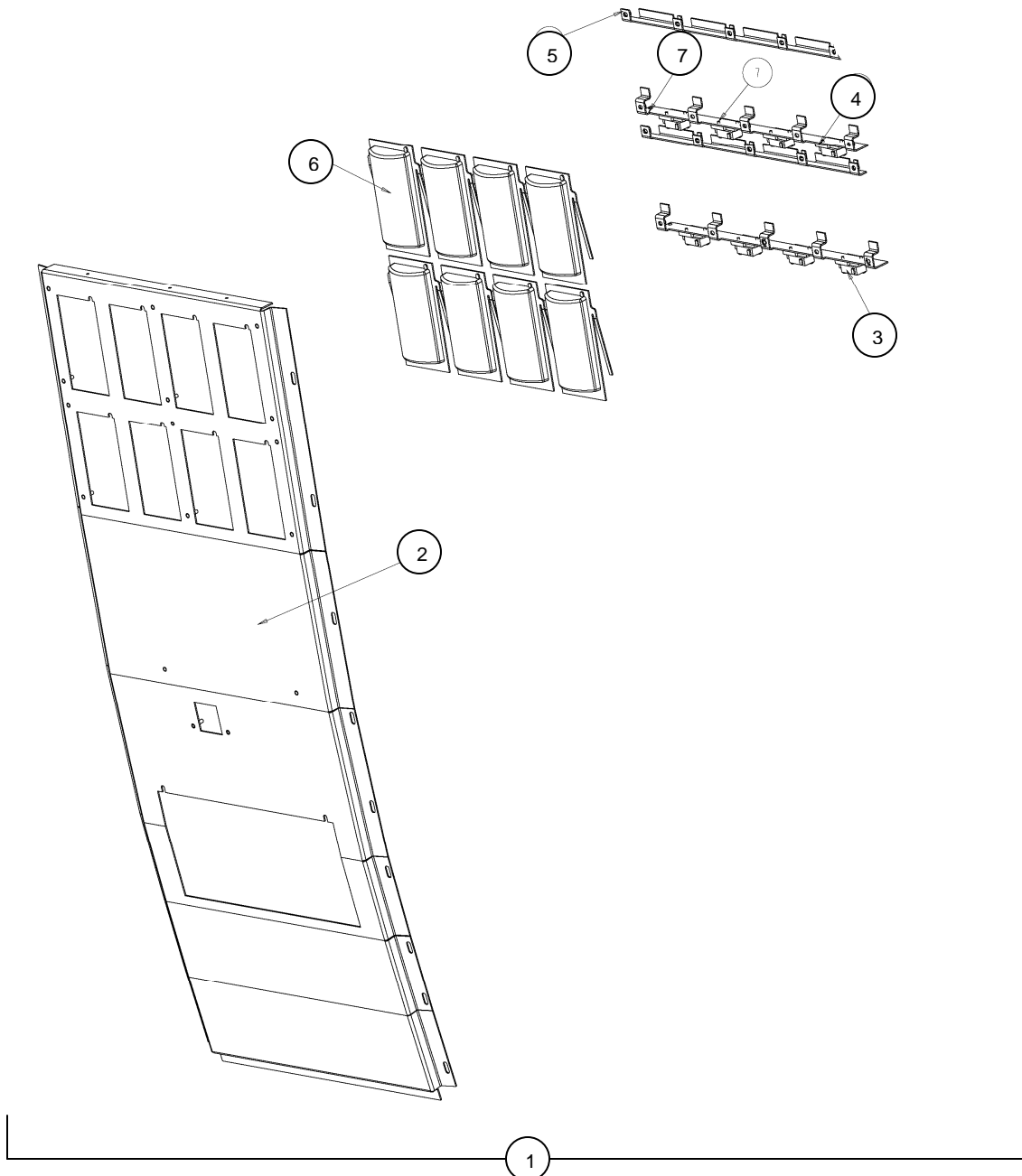
T8 LIGHTING		
ITEM	**PART DESCRIPTION**	**DN504P**
1	T8 Light Assembly	639,051,00x.x3
2	Assembly, Ballast OSRAM QTISe2x58 T8 220v	804,401,22x.x1
3	Enclosure, Ballast Export	631,051,01x.x3
4	T8 Lighting Harness (Not Shown)	804,923,33x.x1
5	Lamp,R, FL T8 5' L58W/840	804,700,83x.x1
6	Lamp,R,FL48"TLD36W/840NG METRIC	804,700,66x.x1
7	Fluorescent Lamp Boot	802,001,44x.x1
8	Bracket, Lamp Socket (4)	642,050,68x.x3
T8 Lighting - MISCELLANEOUS		
ITEM	**PART DESCRIPTION**	**DN504P**
A1	Screw,R,8-18x1/2 SD Phillip Pan	800,304,18x.x1
Part numbers & descriptions are subject to change with out notice. NA = Not applicable		
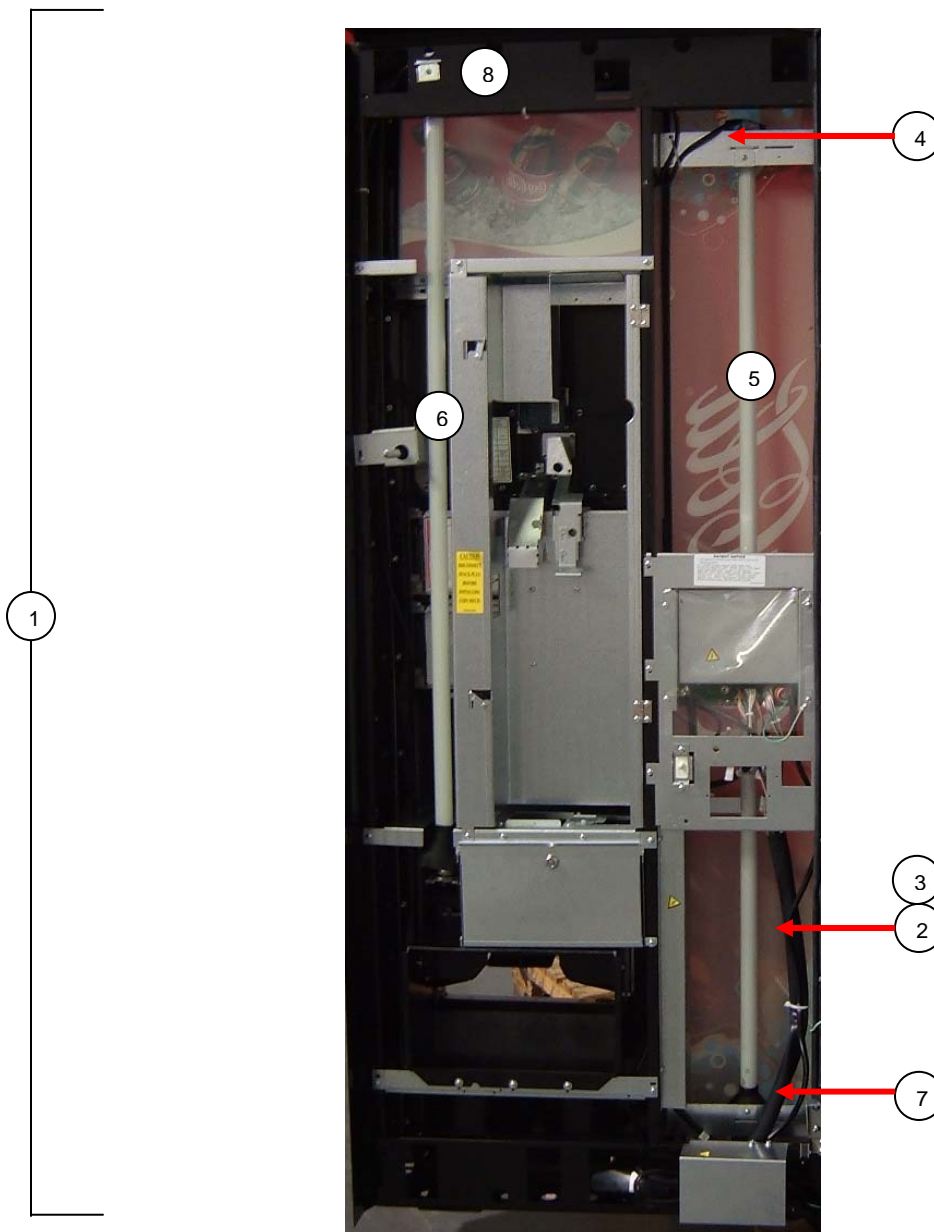
ELECTRONIC COMPONENTS		
ITEM	**PART DESCRIPTION**	**DN504P**
1	Control Board Assembly SBC	640,010,00x.x3
2	Controller Cover - Not Shown	801,306,16x.x1
3	Display Board 14 Segment	804,925,16x.x1
4	EPROM	804,919,77x.x1
5	Rain Curtain, Control Board	801,904,23x.x1
6	Battery, 3V Lithium (CR2032)	804,920,45x.x1
7	Door Switch	804,100,77x.x
8	Vend Sensor Assembly, Service Kit	639,010,00x.x3
9	Kit, Override Switch	626,020,44x.x4
10	Transformer	804,926,90x.x1
	Part number and description subject to change with out notice.	
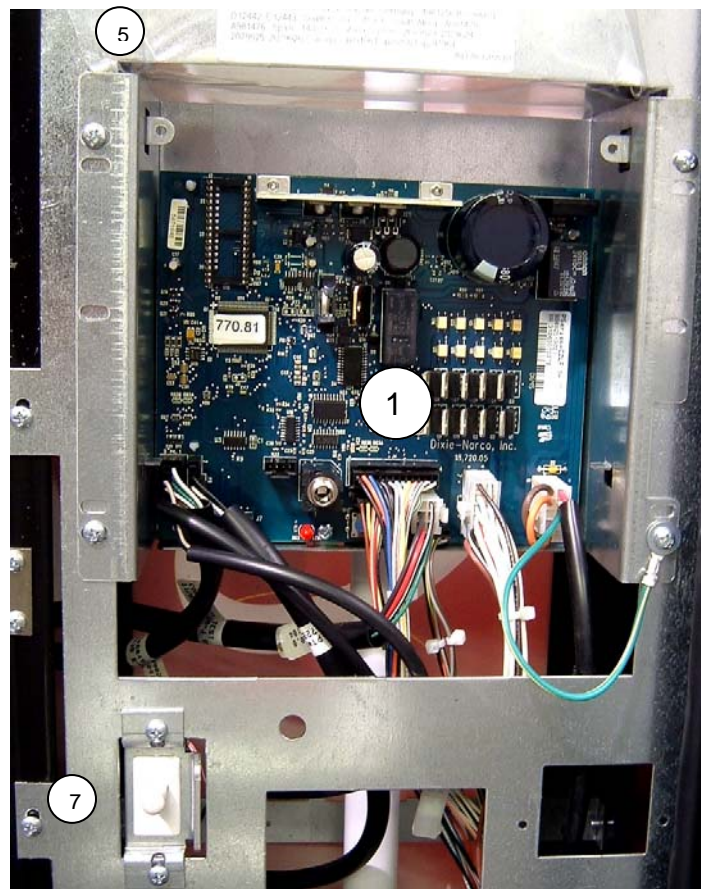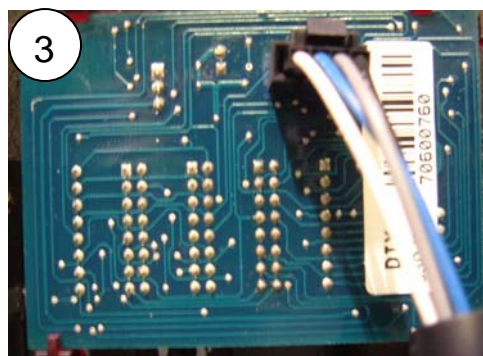
INNER DOOR

Part number and description subject to change with out notice.

| ITEM	INNER DOOR	
ITEM	**PART DESCRIPTION**	**DN504P**
1	Inner Door Assembly	640,052,80x.x3
2	Sub Assembly Inner Door	640,050,90x.x3
3	Gasket, Inner Door	801,819,05x.x1
4	Label, Programming	8093,857,71x.x1
5	Loading Instruction	803,881,63x.x1
6	Wiring Diagram	803,886,46x.x1
7	Label, Button/Stack	803,881,34x.x1
8	Gate, Front Product Positioner	801,821,57x.x1
9	Discharge Frame Retainer	801,809,15x.x1
10	Assembly, Discharge Frame	801,809,16x.x1
10a	Assembly, Discharge Door	801,809,17x.x1
10b	Frame, Discharge	801,809,14x.x1
10c	Rod, Hinge (Not Shown)	801,401,70x.x1
11	Inner Door, Top Hinge, Weld Assembly	169,053,00x.x3
12	Inner Door, Bottom Hinge, Weld Assembly	169,051,10x.x3
	INNER DOOR - MISCELLANEOUS	
ITEM	**PART DESCRIPTION**	**DN504P**
A1	Screw, SD Phil Pan Sems	800,304,23x.x1
A2	Inner Door Bushing,R, (Bearing)	801,806,42x.x1
A3	Bushing Retainer,R	801,806,43x.x1
A4	Plastic Bearing,R (Not Shown)	901,803,71x.x1
A5	Inner Door Lock Kit	360,010,30x.x4
	Part number and description subject to change with out notice.	

HARNESSING Single Board (SBC)		
ITEM	**PART DESCRIPTION**	**DN504P**
1	Motor Harness (Stack)	000410
2	Harness, P-Series Door	804,926,37x.x1
3	MDB Harness	804,920,83x.x1
4	Harness, AC Distribution - Door	804,923,80x.x1
5	Harness, Selection Panel	804,921,09x.x1
6	66" DEX Harness	804,907,83x.x1
7	Display Harness (P3 to display board)	804,919,57x.x1
8	Secondary DEX Harness	804,913,97x.x1
9	Extended Light Harness, AC Box	804,923,80x.x1
10	Nut, DEX Harness	800,801,65x.x1
11	Power Cord,R, Schuko Detachable	804,923,48x.x1
HARNESSING Single Board (SBC) - MISCELLANEOUS		
ITEM	**PART DESCRIPTION**	**DN504P**
A1	Tie,R, Wire 7.5"	901,902,01x.x1
A2	Screw,R, 8-18x1/2 Phillip Pan	800,304,18x.x1

Part number and description subject to change with out notice.
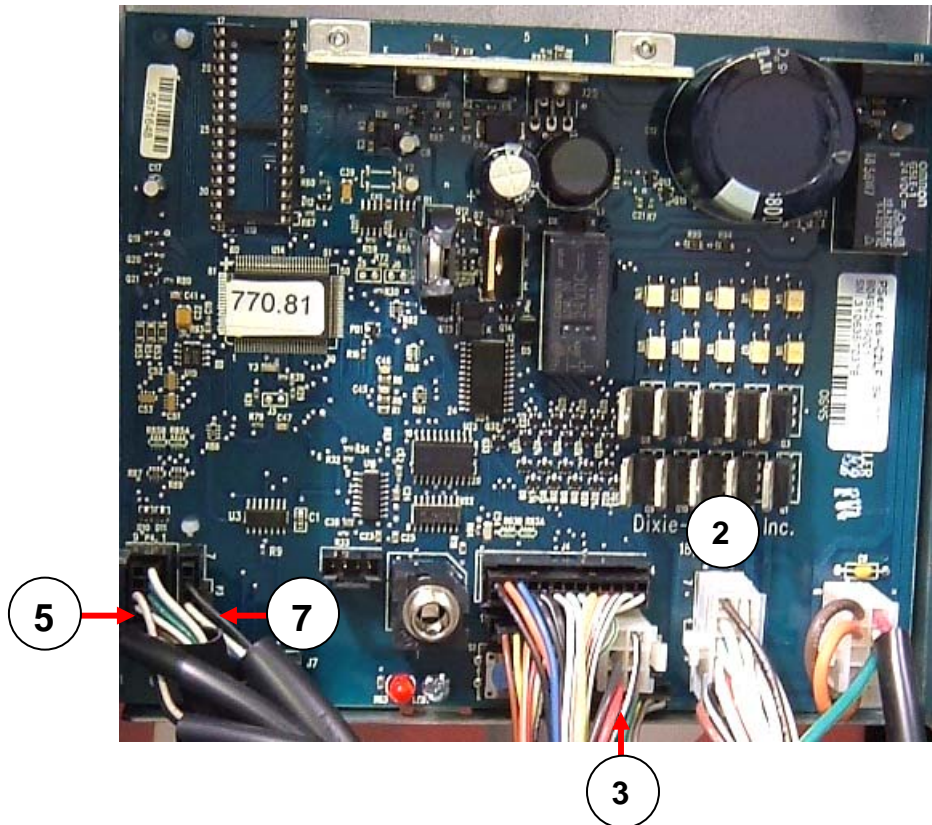
POWER DISTRIBUTION
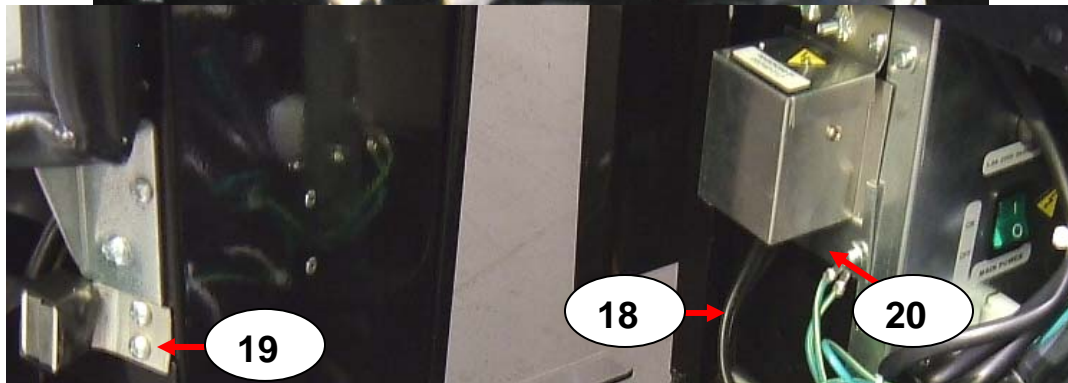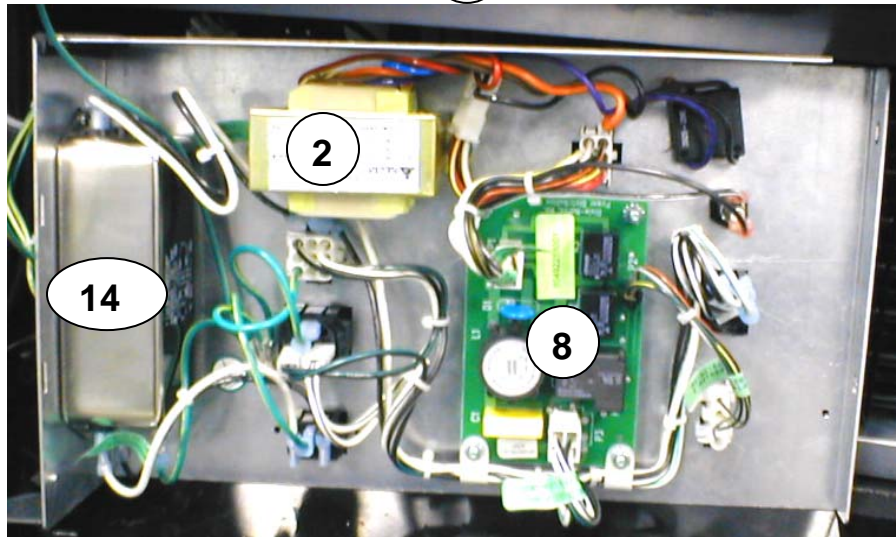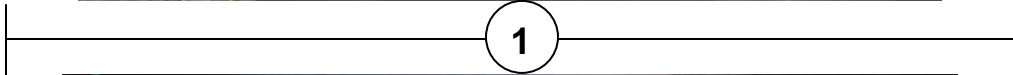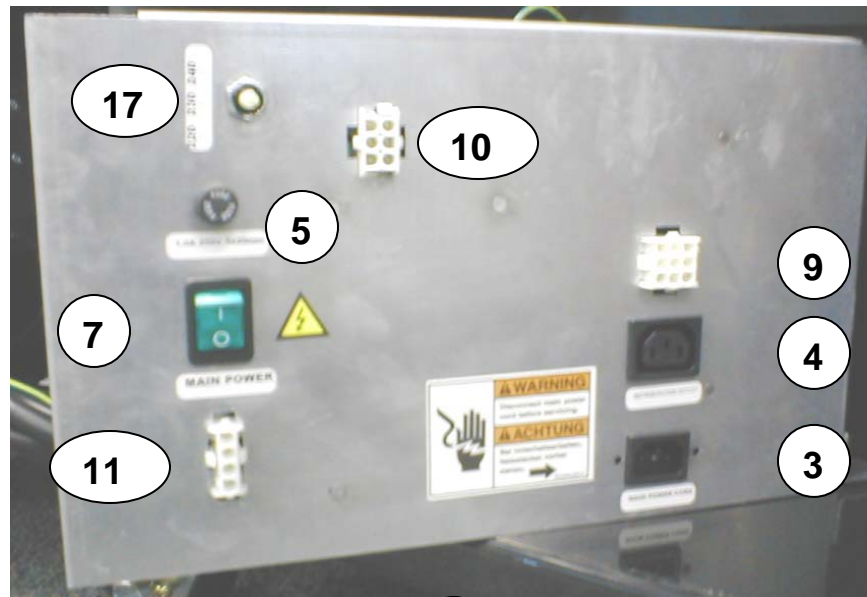
POWER DISTRIBUTION		
ITEM	**PART DESCRIPTION**	**DN504P**
1	Power Distribution Box Assembly 115/60	639,030,60x.x3
2	Transformer	804,926,90x.x1
3	Power Inlet Plug	804,913,62x.x1
4	Refrigeration Outlet	804,911,14x.x1
5	Fuse Holder	804,925,46x.x1
6	Fuse,R,1AMP,5x20mm,SLOBLO,250V	804,925,49x.x1
7	Rocker Switch,R, Illuminated Green	804,101,12x.x1
8	Relay Board Assembly, AC Distribution	804,925,28x.x1
9	AC Input Harness	804,923,23x.x1
10	AC Outlet Harness	804,923,24x.x1
11	Power Distribution Relay Harness	804,923,25x.x1
12	Extended Light Harness, AC Box	804,923,80x.x1
13	Bracket, Mounting Power Dist Box	639,030,08x.x3
14	Filter, EMI Schaffner FN2080-10	804,800,96x.x1
15	Harness, to Filter	804,923,43x.x1
16	Harness, from Filter	804,923,44x.x1
17	Switch, 3-Position Rotary	804,916,93x.x1
18	Harness, PI Switch Assembly	804,925,35x.x1
19	Assembly,R, Magnet, Power Interrupt LMV	804,925,63x.x1
20	Plate, Support PI Switch	639,030,11x.x3
21	Power Cord, Schuko Export	804,923,48x.x1
POWER DISTRIBUTION - MISCELLANEOUS		
ITEM	**PART DESCRIPTION**	**DN504P**
A1	Label,R, Ground	903,826,61x.x1
A2	Label,R,Warning High Voltage	903,825,86x.x1
A3	Nut,R, KEPS 8-32	900,800,50x.x1
A4	Lead,R,Ground 5"	804,923,27x.x1
A5	Lead,R,Ground 39" 16AWG 603290	804,905,38x.x1
A6	Lead,R, Ground 4" Green/Yellow	804,902,61x.x1
A7	Label,R, ON/OFF Rocker Switch	803,879,72x.x1
A8	Label,R, Main Power Inlet	803,876,84x.x1
A9	Label,R, Fuse 1.0A	803,876,83x.x1
A10	Label,R, Refrigeration Outlet	803,868,04x.x1
A11	Label,R, Main Power	803,860,85x.x1
A12	Label,R, AC Box Power German	803,858,69x.x1
A13	Label,R, Select Switch	803,857,56x.x1
A14	Spacer,R, Nylon #8 ID,.312 OD, .5	801,818,13x.x1
A15	Rivet,R, 1/8 Steel Zinc	801,100,81x.x1
A16	Clamp,R, P Nylon Cable 5/16"	800,902,51x.x1
A17	Nut,R, KEPS 15-21 Hex Panel	800,801,63x.x1
A18	Screw,R, 8-32x3/8 Phillip Pan Type 1	800,304,22x.x1
A19	Screw,R, 8-18x1/2 SD Phillip Pan	800,304,18x.x1

Part number and description subject to change with out notice.

CABINET AND VEND MECHANISM
(Section 1)
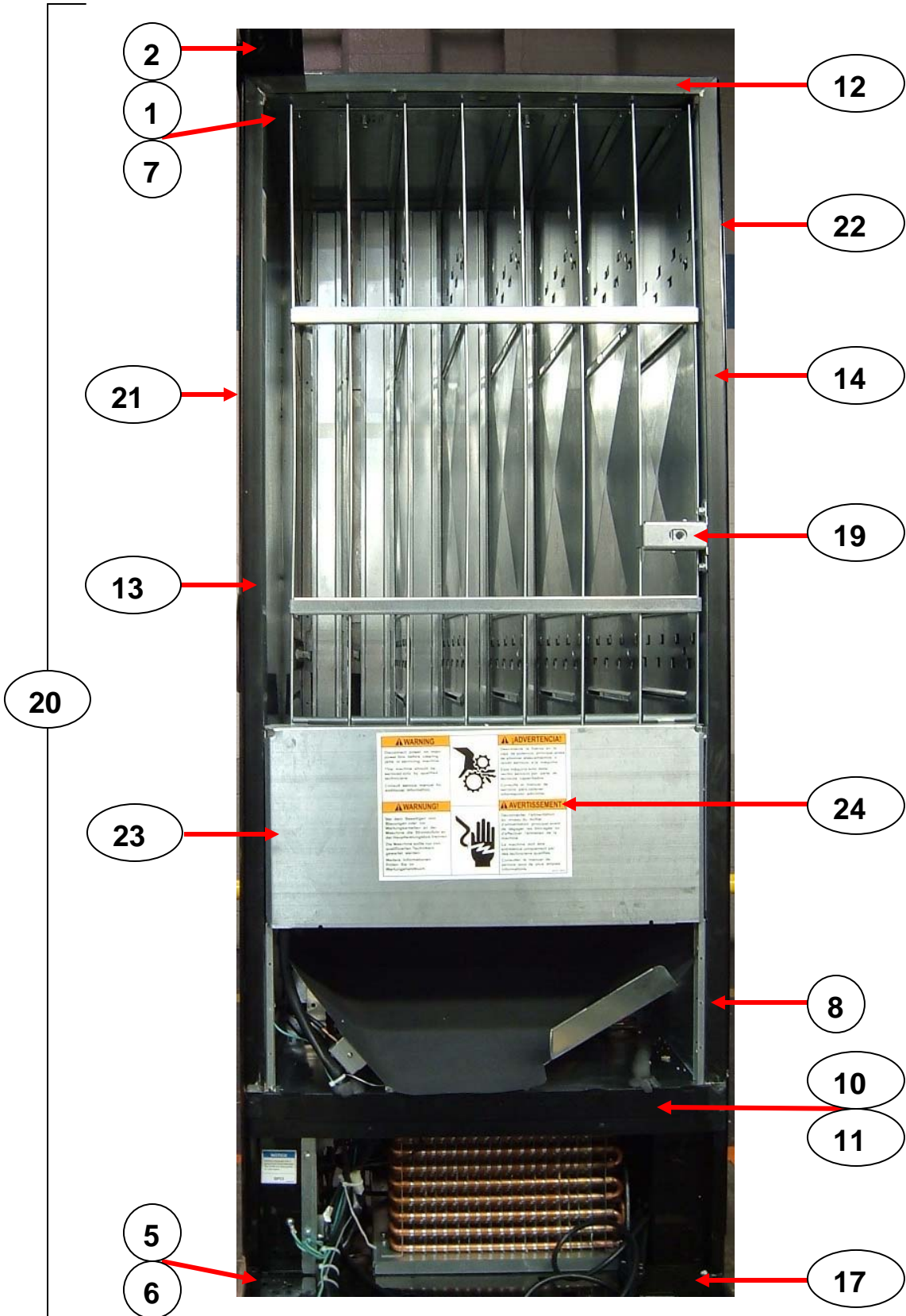
Part number and description subject to change with out notice.

CABINET AND VEND MECHANISM (Section 1)		
ITEM	PART DESCRIPTION	DN504P
1	Cover, Hinge Pocket	631,051,07x.x3
2	Door Hinge Kit	642,053,40x.x4
3	Weld assembly Top Hinge (Main Door)	642,050,35x.x3
4	Hinge, Spacer (2)	169,000,15x.x3
5	Hinge, Bottom Assembly (Main Door)	642,051,80x.x3
6	Sleeve, bottom hinge	900,502,64x.x1
7	Block, Foam	903,300,77x.x1
8	Stack Supports (4)	651,070,02x.x3
9	Ingress Guard Assembly	640,071,40x.x2
10	Mullion	801,819,57x.x1
11	Mullion Cap	801,818,92x.x1
12	Breaker Strip - Top	493,020,06x.x3
13	Breaker Strip - Left	639,020,05x.x3
14	Breaker Strip - Right	639,020,09x.x3
15	Bearing, Hinge – Pin less	805,300,67x.x1
16	Roller, Main Door	901,806,20x.x1
17	Pin, Door Roller 5/32x2-3/8	800,503,78x.x1
18	Retainer, Door Roller Pin, R,	900,900,90x.x1
19	Lock Housing Assembly	639,072,40x.x3
20	Cabinet Assembly	652,061,10x.x3
21	Plate, Protective Left Side (Specify Color)	649,000,01x.x3
22	Plate, Protective Right Side Cabinet (Specify Color)	649,000,02x.x3
23	Assy, Vend Motor Cover	640,071,70x.x3
24	Label, Vend Motor Cover	803,871,19x.x1
CABINET AND VEND MECHANISM (Section 1) - MISCELLANEOUS		
ITEM	PART DESCRIPTION	DN504P
A1	Nut,R,HS Square	800,801,62x.x1
A2	Nut,R, Cage Traditional	801,303,85x.x1
A3	Washer, Door Hinge, R,	800,701,73x.x1
A4	Screw,R,¼-20x5/8HX Type F SEMS B	800,304,36x.x1
A5	Screw,R, 8-32x3/8, Phillips Pan Type 1 B	800,304,22x.x1
A6	Threadlocker, R,	903,500,38x.x1
A7	Bolt,R, Carriage ¼ - 20 x 1 ¼	800,202,43x.x1
A8	Bolt,R, Carriage 5/16 – 18 x 1 ¼	800,202,54x.x1
A9	Screw,R, Tap 1/4-20x1 Hex Type F	800,304,26x.x1
A10	Screw,R, Phil Pan 8 – 18 x ½	800,304,18x.x1
A11	Nut, Hex Jam 5/16 - 18	800,801,61x.x1
A12	Tie,R,5.5" Hand	901,901,06x.x1
A13	Leveling Leg, 5/8-11x2 1/16"	800,503,79x.x1
A14	Side Decal, Coca-Cola 2008	803,887,46x.x1
A15	1/4 Drive Rivet	901,100,44x.x1
A16	Rivet, 1/4" Aluminum	901,100,43x.x1
A17	Hole Plug,R, Snap In - 1 ¼	801,819,69x.x1
A18	Nut,R, KEPS 1/4-20	800,801,57x.x1
A19	Threadstud,R, 5/16-18x3/4	801,002,21x.x1
A20	Hinge Pin,R, Bottom (03701)	800,503,81x.x1

Part number and description subject to change with out notice.

CABINET AND VEND MECHANISM
(Section 2)
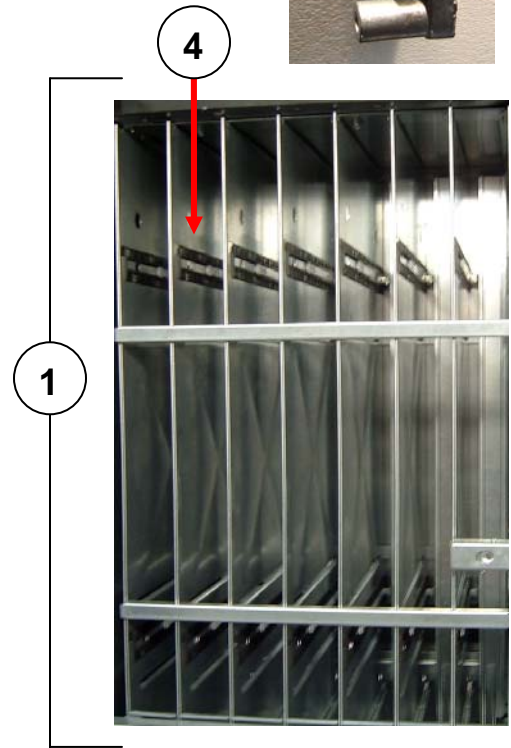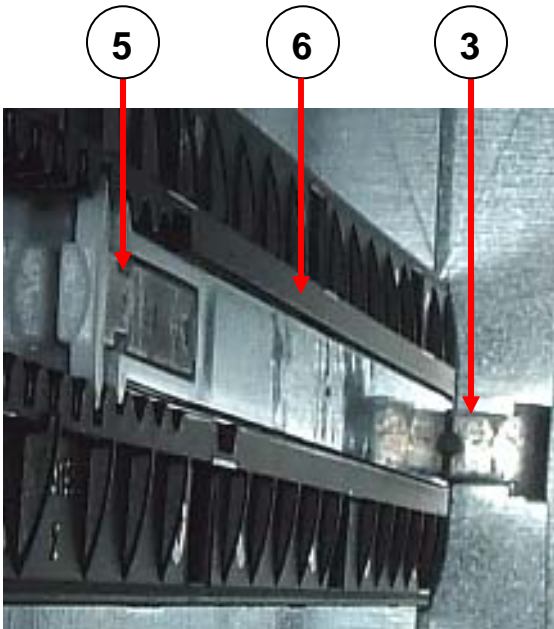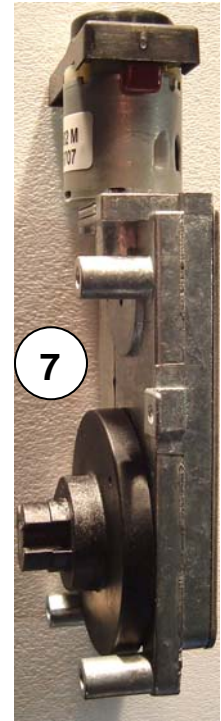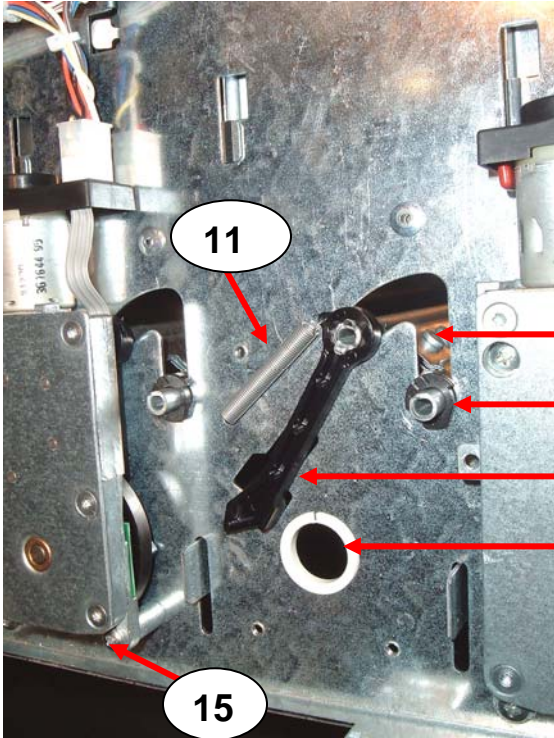
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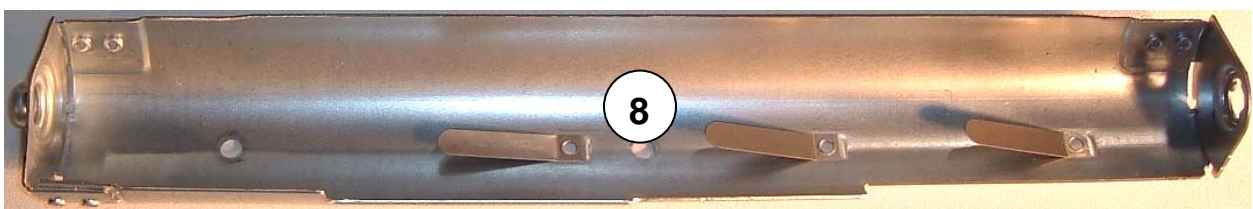
CABINET AND VEND MECHANISM	(Section 2)	
ITEM	**PART DESCRIPTION**	**DN504P**
1	Stack Assembly	652,070,50x.x3
2	Assembly Rear Spacer Narrow	639,070,27x.x3
3	Bracket, Rear Spacer Narrow (2)	801,819,56x.x1
4	Guide, Channel Rear Spacer (2)	801,819,59x.x1
5	Latch, Rear Spacer (2)	801,819,61x.x1
6	Guide Arm Assembly (2)	805,202,57x.x1
7	Vend Motor - Narrow Column	804,501,63x.x1
8	Rotor	801,307,87x.x1
9	Load Bar - Steel	801,306,59x.x1
10	Push Arm	801,819,55x.x1
11	Push Arm Spring	801,701,51x.x1
12	Nyliner .312	801,819,53x.x1
13	Nyliner .750	801,819,52x.x1
14	Bushing, Load Bar .312	801,819,54x.x1
15	Screw, Phil Pan 8-32x1 (3)	800,304,92x.x1
16	Vend Motor Cover	640,071,70x.x3
17	Front Gate Extension	639,070,14x.x3
CABINET AND VEND MECHANISM (Section 2) - MISCELLANEOUS		
ITEM	**PART DESCRIPTION**	**DN504P**
A1	Kit, ID Number Labels	640,070,55x.x4
A2	Screw,R,8-32x3/8 Phillip PanType 1	800,304,22x.x1
A3	Screw,R,¼-20x5/8Hex Type F SEMS	800,304,36x.x1
A4	Tie,R, 5.5" Hand	901,901,06x.x1

Part number and description subject to change with out notice.

CHUTE ASSEMBLY

ITEM	PART DESCRIPTION	DN504P
1	Chute Assembly	640,072,00x.x3
2	Chute	640,070,43x.x3
3	Liner, Chute	801,904,83x.x1
4	Support, Sensor Plate	640,070,36x.x3
5	Vend Sensor Plate	640,070,37x.x3
6	Vend Sensor Assembly, Service Kit	639,010,00x.x3
7	Cover, Sensor Housing	639,070,39x.x3
8	Housing, Vend Sensor	639,070,41x.x3
9	Board, Vend Sensor	804,925,26x.x1
10	Jumper, Vend Sensor	804,922,33x.x1
11	Lead, Vend Sensor	804,924,37x.x1
CHUTE ASSEMBLY - MISCELLANEOUS		
A1	Standoff (4)	801,904,55x.x1
A2	Rivet, 1/8" Black (2)	901,100,54x.x1
A3	Screw, 8-32x¼, Swage Form	800,304,34x.x1
A4	Rivet, 1/8" Steel (9)	801,100,81x.x1
A5	Screw, 8-32x¼ w/ washer	800,304,23x.x1

Part number and description subject to change with out notice.

EVAPORATOR FAN ASSEMBLY		
ITEM	PART DESCRIPTION	DN504P
1	Evaporator Fan Shroud Assembly	640,040,80x.x3
2	Evaporator Fan Shroud	640,040,20x.x3
3	Harness, Evaporator Fan	804,921,73x.x1
4	Evaporator Fan Motor Assy.	639,040,60x.x3
5	Blade,R, Fan 6" 4-Blade Plastic	801,818,88x.x1
6	Motor,R, Evaporator Fan 220/50,60	804,501,72x.x1
7	Bracket, Evaporator Fan	640,040,06x.x3
8	Bracket, Evaporator Fan Panel Left Hand	640,040,08x.x3
9	Bracket, Evaporator Fan Panel Right Hand	640,040,07x.x3
10	Cover, Evaporator Top	640,040,09x.x3
11	Rear Air Stop Assembly	640,040,60x.x3
12	Temperature Sensor	804,925,43x.x1
13	Bracket, Temp Sensor	639,040,04x.x3
EVAPORATOR FAN ASSEMBLY - MISCELLANEOUS		
ITEM	PART DESCRIPTION	DN504P
A1	Screw,R, Phil Pan 8 - 18 x 1/2" (4)	800,304,18x.x1
A2	Hex Nut,R, 11/32" (6)	800,801,54x.x1
A3	Tie,R, 5.5 " Hand	901,901,06x.x1
A4	Bushing, ¾" split Heyco	901,902,17x.x1
A5	Rivet, 1/8" Steel	801,100,81x.x1
A6	Screw,R, 1/4-20x5/8 Hex Type F	800,304,36x.x1
A7	Screw,R, 8-18x½ Phillip Pan SEM	800,304,23x.x1
A8	Screw,R, 8-32x3/8 Phillip Pan Type 1	800,304,22x.x1

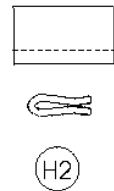Part number and description subject to change with out notice.
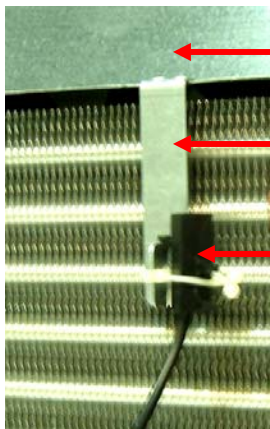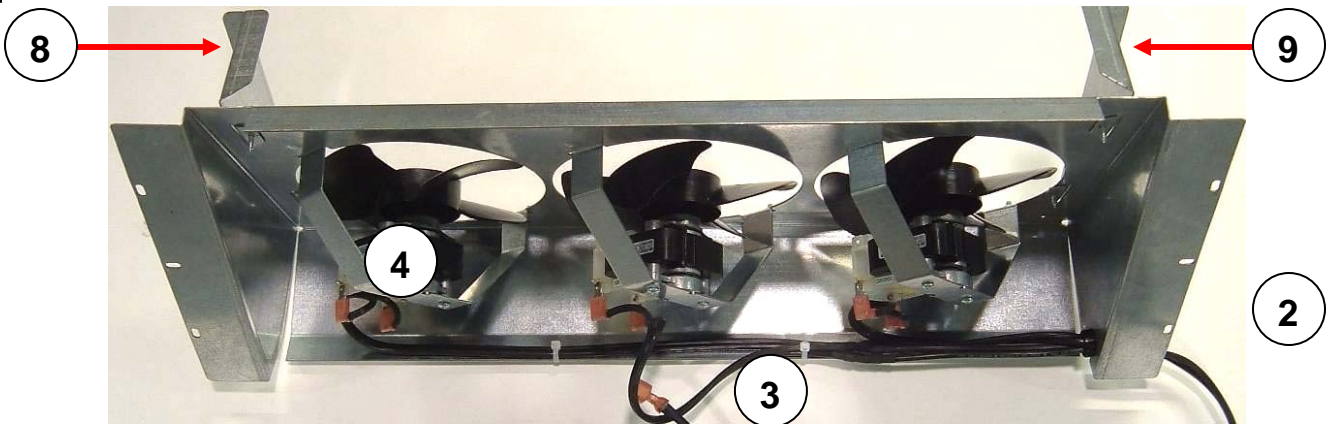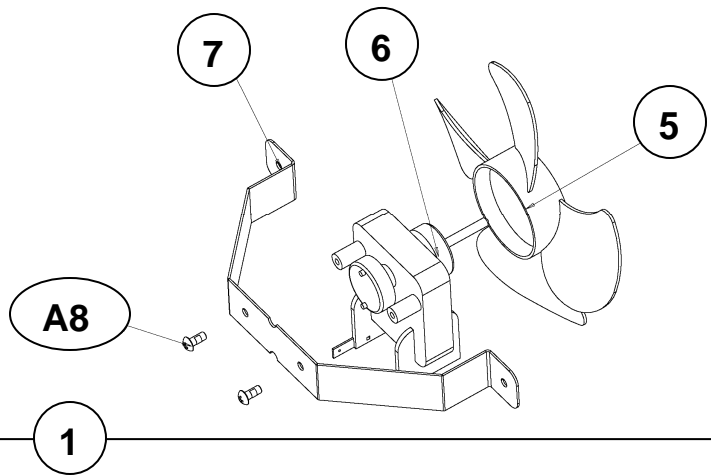
REFRIGERATION SYSTEM
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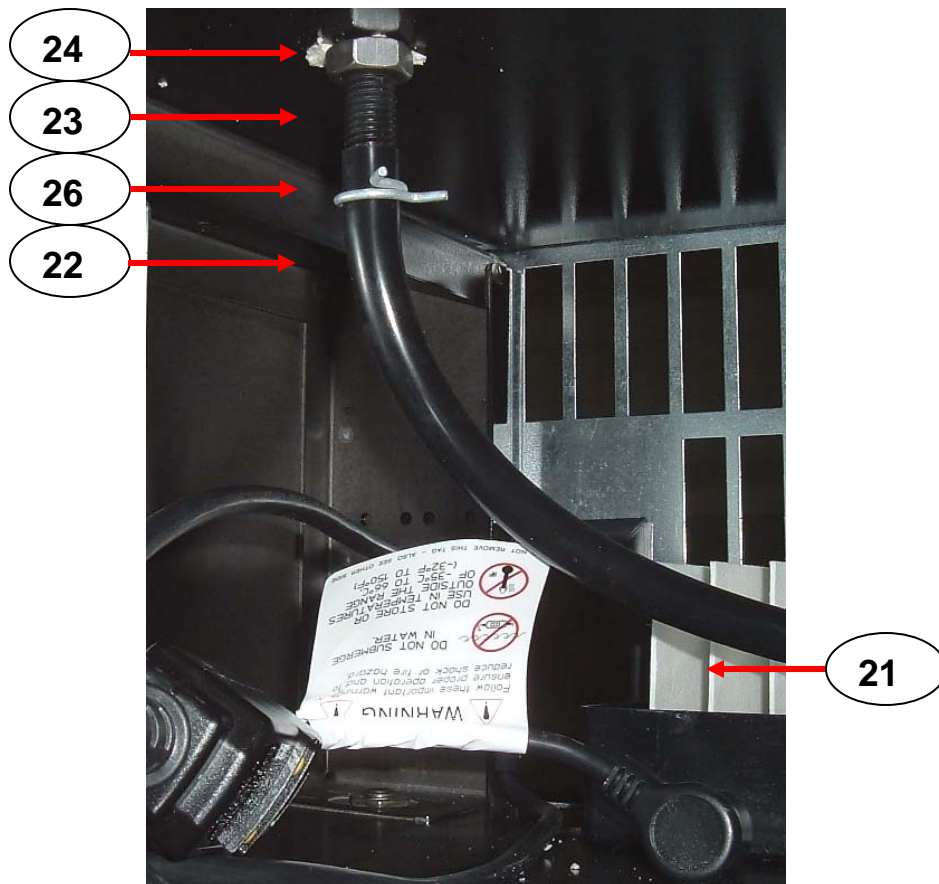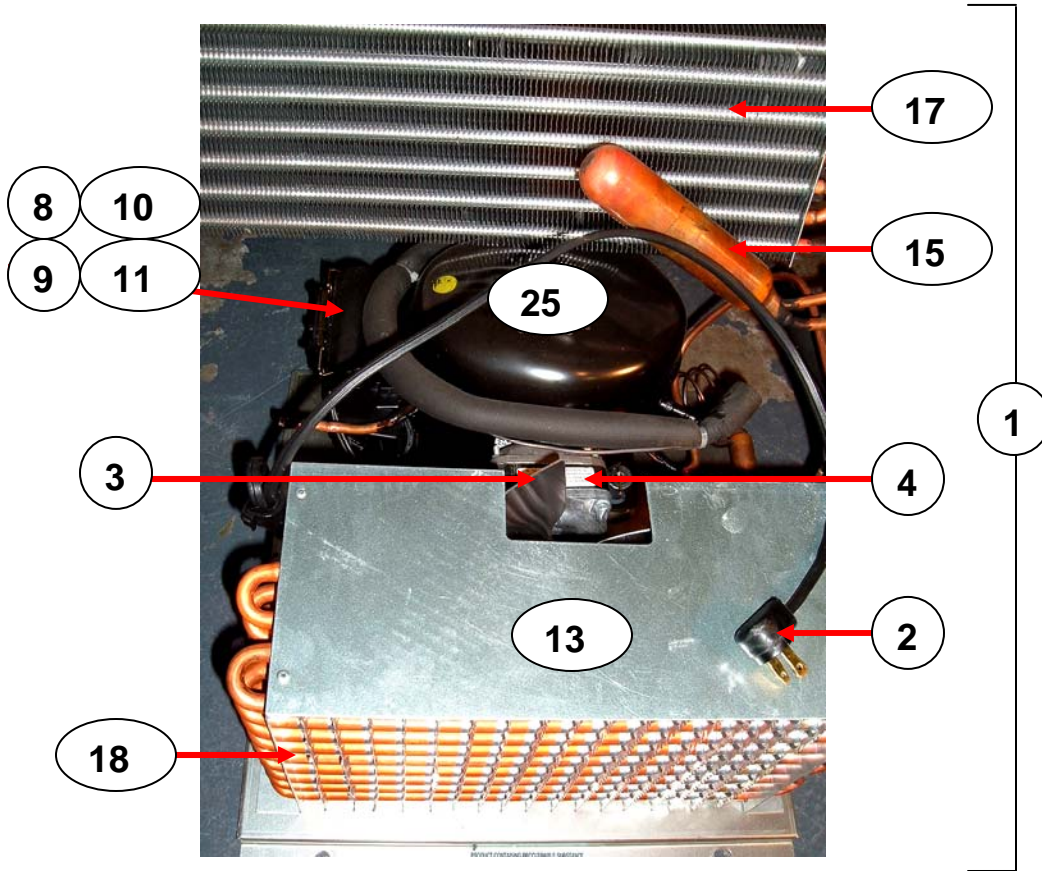
REFRIGERATION SYSTEM		
ITEM	**PART DESCRIPTION**	**DN504P**
1	A,R,Refrigeration Unit	629,040,100.04
2	Cord, Power Refrigeration Compressor	804,925,74x.x1
3	Blade, Fan Condenser 230mm Aluminum	801,306,65x.x1
4	Motor, Condenser 9W	804,501,37x.x1
5	Bracket, Condensor Fan Motor	639,040,05x.x3
6	Bracket, Capacitor	802,401,74x.x1
7	Start Capacitor	802,401,69x.x1
8	Cover, Board, Terminal	802,401,73x.x1
9	Overload, MRT 22AFZ-5590	802,401,72x.x1
10	Bracket, Overload	802,401,71x.x1
11	Assy, Relay 15A 115V M/Cap	802,401,70x.x1
12	Assembly, Heat Exchanger 3000C-E	640,040,00x.x3
13	Shroud, Condensor	640,040,02x.x3
14	Tube, Discharge	640,040,04x.x3
15	Accumulator,R, 1.375ODx6.000L	802,400,46x.x1
16	Dryer,R, .054 Extended Outlet 134A	802,401,29x.x1
17	Evaporator,R, Coil Short	802,600,37x.x1
18	Condenser,R, 1.33 FPI 9x12.25x4	802,600,69x.x1
19	Tube,R, Copper 1/4ODx.028W	803,000,39x.x1
20	Jumper,R, Capillary .054x1/4x2	902,401,14x.x1
21	Drain Pan w/Soakers	805,800,71x.x1
22	Hose, Drain	901,900,50x.x1
23	Tube, Drain Nylon	801,806,05x.x1
24	Nut, Drain Tube	800,304,27x.x1
25	Compressor, NEK6212Z 220/50 1/3 EMBRC	802,502,85x.x1
26	Clamp, Drain Hose, HC-12	800,903,27x.x1
REFRIGERATION SYSTEM - MISCELLANEOUS		
ITEM	**PART DESCRIPTION**	**DN504P**
A1	Wire Tie, Twist, .56-.60 ID	W223
A2	Screw, 1/4-20x5/8 Type F Sems (2)	800,304,36x.x1
A3	Bushing,R, 3/4" Split Heyco	901,902,17x.x1
A4	Grommet,R, Compressor	902,000,57x.x1
A5	End Cap, EmBraco #2075200	802,401,62x.x1
A6	Screw, Capacitor Metric	802,401,75x.x1
A7	Screw, Grounding	802,401,76x.x1
A8	Terminal, Arkless	904,601,36x.x1
A9	Label, **Recoverable Substance**	903,833,54x.x1
A10	Silencer, Fan Blade	902,100,29x.x1
A11	Nut, Speed	900,800,85x.x1
A12	Clip,R,Retainer Compressor (4)	900,901,88x.x1
A13	Pug,R, Compressor Grommet	901,803,91x.x1
A14	Rivet,R, 1/8 Steel Zinc (2)	801,100,81x.x1
Part number and description subject to change with out notice.		

MISC. LABELS		
ITEM	**PART DESCRIPTION**	**EXPORT**
A1	Label,R, Fuse 1.0A	803,876,83x.x1
A2	1.0A	803,876,83x.x1
A3	Label, Refrigeration Outlet	803,868,04x.x1
A4	Label, Main Power	803,860,85x.x1
A5	Label, AC Box Power German	803,858,69x.x1
A6	Label, Main Power Inlet	803,876,84x.x1
A7	Label, On/Off Rocker	803,879,72x.x1
A8	Kit, ID Number Labels	639,070,76x.x4
A9	Label, Upper Refill	803,876,01x.x1
A10	Label, Lower Refill	803,876,03x.x1
A11	Label, Money Removed Daily	903,805,70x.x1
A12	Label, GFCI	803,885,42x.x1
A13	Label, Price .50-1.25	903,828,82x.x1
A14	Label, Ground	903,826,61x.x1
A15	Label, Warn High Voltage	903,825,86x.x1
A16	Label, Select Switch	803,857,56x.x1
A17	Kit, CC Pricing Labels CWD	491,745,60x.x4
Part number and description subject to change with out notice.		

SCREWS & NUTS

A1
A2
A3
A4
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A7

A8
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B1
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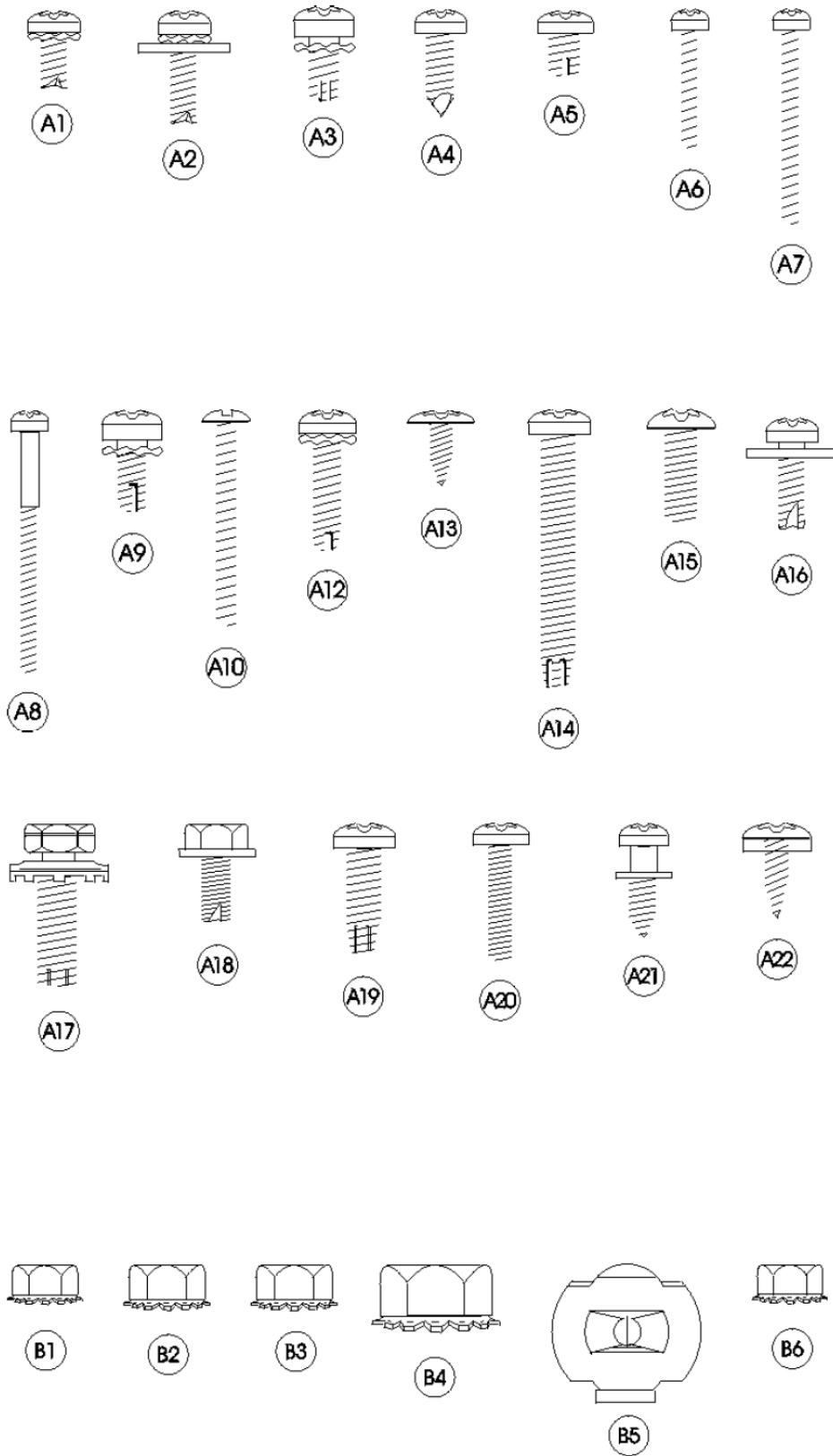
SCREWS & NUTS

WASHERS, BOLTS, & MISC. HARDWARE

C1

C2

C3

C4

C5

C5

D1

D2

D3

E1

E2

E3

E4

F1

F2

F3

H1

H2

H3

H4

H5

I1

I2

I3

I4
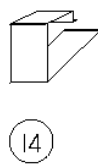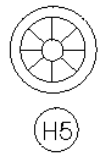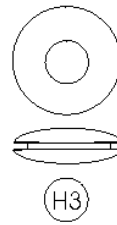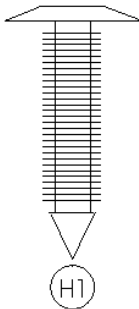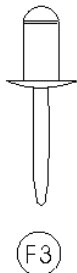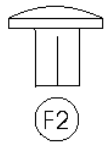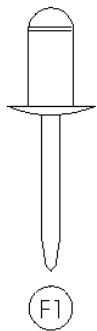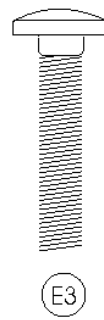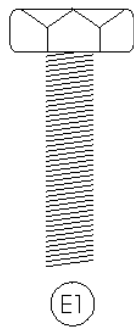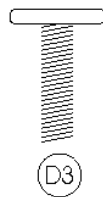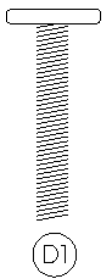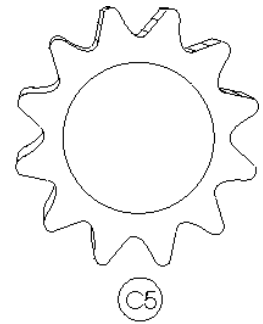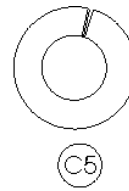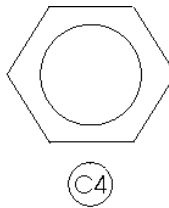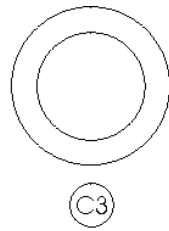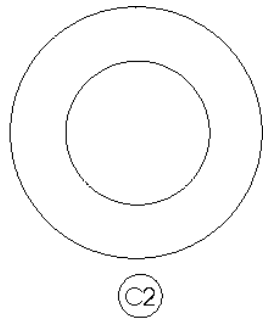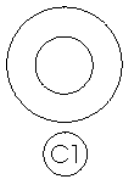
WASHERS, BOLTS, & MISC. HARDWARE

ITEM	PART NUMBER	PART NAME AND DESCRIPTION
C1	900,700,60x.x1	Washer, Delrin .047 Thick 3/8"IDx5/8"OD
C2	901,303,77x.x1	Washer, Door Hinge
C3	901,503,06x.x1	Washer, Flat #2949 (T-Handle)
C4	901,503,08x.x1	Washer, Hex #29-34 (T-Handle)
C5	900,700,36x.x1	Lockwasher, Split 3/8"
C6	900,700,89x.x1	Lockwasher, Shakeproof 5/8" (1132-00-00-0551)
C7	900,700,02x.x1	Steel Washer, 18 Gauge (1/2"x3/16")
C8	900,700,62x.x1	Washer, Shakeproof (4610-16-01-0551)
C10	900,700,83x.x1	Washer, Flat 18 Gauge (17/64""IDx5/8"OD)
C11	900,700,08x.x1	Washer, Flat 14 Gauge (5/16"-3/8"x7/8")
C12	801,902,48x.x1	Nylon Spacer
	900,701,05x.x1	Washer Flat (.343"ID x .688" OD .6T)
D1	900,400,43x.x1	T-Bolt, #8 - 32 x 1" (obsolete)
D2	900,400,41x.x1	T-Bolt, #8 - 32 x 1 3/8"
D3	900,40x.x5x.x1	T-Bolt, #8 - 32 x 3/4"
D4	900,400,45x.x1	T-Bolt, #8 - 32 x 1/2"
E1	900,400,44x.x1	Refrigeration Bolt, 3/8 - 16 x 1"
E2	900,201,17x.x1	Carriage Bolt, 1/4 - 20 x 1"
E3	900,201,23x.x1	Carriage Bolt, 1/4 - 20 x 1 1/4"
E4	900,201,45x.x1	Carriage Bolt, 1/4 - 20 x 1/2"
E5	900,201,54x.x1	Carriage Bolt, 1/4 - 20 x 3/8"
E6	900,201,56x.x1	Carriage Bolt, 1/4 - 20 x 3/4"
E7	900,303,12x.x1	Carriage Bolt, 1/4-20x5/8" (obsolete)
E8	900,201,85x.x1	Carriage Bolt, 5/16x18x1 1/4" Top Hinge (drop in)
E9	800,303,19x.x1	Carriage Bolt, 1/4-20x5/8"
E10	900,202,04x.x1	Carriage Bolt, ¼-20x1/2" (red)
F1	901,100,43x.x1	Pop Rivet, Aluminum 1/4"
F2	901,100,44x.x1	Drive Rivet, #38-108-06-13 1/4" dia.
F4	901,100,54x.x1	Pop Rivet, Black 1/8"
F5	901,100,61x.x1	Pop Rivet, Steel (Zinc Plated) 1/8"
F6	901,100,53x.x1	Pop Rivet, Aluminum 1/8"
F7	901,100,60x.x1	Pop Rivet, Steel (Zinc Plated) 3/16"
H1	900,902,13x.x1	Christmas Tree Clip #354280307-00 (NOT USED)
H2	900,901,89x.x1	Tinnerman Clip, Fan Shroud (C5207-014-3B)
H3	900,401,09x.x1	Grommet, Bk. Rubber #97
H4	901,503,07x.x1	E-Ring #31-30
H5	900,900,90x.x1	Retainer, Roller Pin
H6	900,902,18x.x1	Tinnerman Clip
H7	801,807,01x.x1	Hole Plug, Snap in - 1 1/4
H8	901,806,77x.x1	Grommet, Admiral #B53351
H9	902,100,29x.x1	Silencer
I1	804,601,45x.x1	#6 Terminal Ring Crimp 16-14 AWG
I2	801,902,48x.x1	Nylon Spacer used on Coke D/O Boards
I3	801,809,12x.x1	Velcro Blocks
I4	801,807,49x.x1	Vender Defender Clamp

Part numbers & descriptions are subject to change with out notice.
NA = Not applicable

WASHERS, BOLTS, & MISC. HARDWARE

ITEM	PART NUMBER	PART NAME AND DESCRIPTION
I5	901,901,89x.x1	Clamp, Cable 1" Heyco 3390
I6	900,901,79x.x1	Clamp, Nylon 5/16" Black Heyco 3355 or Dennison 10159
I7	900,901,80x.x1	Clamp, Nylon 1/2" Heyco 3328
I8	901,901,06x.x1	Hand Tie, x.x"
I9	901,902,01x.x1	Wire Tie, 7 1/2"
10	901,901,00x.x1	Wire Ties, 4"
11	901,900,55x.x1	Clamp, Nylon 3/4" Heyco 3382BL
12	901,902,83x.x1	Cable Tie, x.x"
13	900,902,14x.x1	Canoe Clip #254-090-301-00-0108

Part numbers & descriptions are subject to change with out notice.
NA = Not applicable